					ST DEPARTMENT DIVISION C		TURAL RES				AMENI	FC DED REPOI	RM 3	
		AF	PPLICATION FO	OR PERM	IIT TO DRILL					1. WELL NAME and NUMBER NBU 921-1711BS				
2. TYPE C	F WORK	DRILL NEW WELL	REENTER	P&A WELL	_ DEEPEN	I WELL)			3. FIELD OR WILDCA				
4. TYPE O	F WELL				hane Well: NO					5. UNIT or COMMUNI	TIZATION NATURAL		ENT NAM	1E
6. NAME	6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.										720 92			
8. ADDRE	8. ADDRESS OF OPERATOR										L			
10. MINER	RAL LEASE NUM	IBER	P.O. Box 173779		INERAL OWNERS	SHIP				12. SURFACE OWNER		anadarko	.com	
(FEDERA	L, INDIAN, OR S	TATE) UTU0575		FEC	DERAL 🗓 IND	DIAN 🔵	STATE () FEE		FEDERAL NI	DIAN 🔳	STATE	F	EE 💭
13. NAME	OF SURFACE	OWNER (if box 12	= 'fee')							14. SURFACE OWNER	R PHONE	(if box 12	= 'fee')	
15. ADDR	ESS OF SURFA	CE OWNER (if box	12 = 'fee')							16. SURFACE OWNER	R E-MAIL	(if box 12	: = 'fee')	
	N ALLOTTEE O	R TRIBE NAME			TEND TO COMM		RODUCTION	NFROM		19. SLANT				
(if box 12	2 = 'INDIAN') THE	UTE INDIAN TRIBE			cers.		ing Applicati	on) NO		VERTICAL DIF	RECTION	AL 📵 H	HORIZON	ΓAL 🔵
20. LOC	ATION OF WELI	-		FOOTAGE	ES	QTF	R-QTR	SEC	TION	TOWNSHIP	R	ANGE	МЕ	ERIDIAN
LOCATIO	ON AT SURFACI		18	6 FSL 84	4 FEL	N	IESE	1	7	9.0 S	2	1.0 E		S
Top of U	Ippermost Prod	lucing Zone	246	60 FSL 49	3 FEL	N	IESE	1	7	9.0 S	2	1.0 E		S
At Total Depth 2460				60 FSL 49	SL 493 FEL		IESE	1	7	9.0 S		21.0 E		S
21. COUN	ITY	UINTAH		22. DI	STANCE TO NEA	REST LE		eet)		23. NUMBER OF ACRI	ES IN DR		IT	
					STANCE TO NEA ied For Drilling	or Compl	leted)	POOL		26. PROPOSED DEPTI		TVD: 114	.90	
27. ELEV	ATION - GROUN	ID LEVEL		28. BO	OND NUMBER	74	.0			29. SOURCE OF DRIL	LING WA	TER /		
		4837				WYB00	00291			WATER RIGHTS APPR	OVAL NU 43-8		PPLICAB	LE
					Hole, Casing	, and Ce	ement Info	rmation						
String	Hole Size	Casing Size	Length	Weight			Max Mu							Weight
Surf	11	8.625	0 - 3000	28.0	J-55 LT	T&C	0.	.2		Type V Class G		180 270	1.15	15.8 15.8
Prod	7.875	4.5	0 - 11572	11.6	HCP-110	LT&C	12	.5	Pre	mium Lite High Stre	nath	360	3.38	12.0
										50/50 Poz		1680	1.31	14.3
		<u> </u>	'		A	TTACH	MENTS							
	VEF	RIFY THE FOLLO	WING ARE AT	ACHED	IN ACCORDAN	ICE WIT	H THE UT	AH OIL A	ND GAS	CONSERVATION G	ENERA	L RULES		
₩ w	ELL PLAT OR M	AP PREPARED BY	LICENSED SURVE	YOR OR E	NGINEER		СОМ	PLETE DR	ILLING P	_AN				
AF	FIDAVIT OF STA	ATUS OF SURFACE	OWNER AGREEM	IENT (IF FE	EE SURFACE)		FORM	/ 5. IF OPE	RATOR I	S OTHER THAN THE LE	EASE OW	NER		
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)							торс	GRAPHIC	AL MAP					
NAME Cara Mahler TITLE Regulatory Analyst I									PHONE	720 929-6029				
SIGNATU	JRE			DATE	12/20/2012				EMAIL	cara.mahler@anadarko	o.com			
	ber assigned 047534520			APPRO	DVAL				Bro	ocylll				
	Per									mit Manager				

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 921-17I1BS

 Surface:
 1816 FSL / 844 FEL
 NESE

 BHL:
 2460 FSL / 493 FEL
 NESE

Section 17 T9S R21E

Unitah County, Utah Mineral Lease: UTU 0575

ONSHORE ORDER NO. 1

DRILLING PROGRAM

8 2.a <u>Estimated Tops of Important Geologic Markers</u>: <u>Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations</u>:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,706'	
Birds Nest	2,009'	Water
Mahogany	2,552'	Water
Wasatch	5,152'	Gas
Mesaverde	8,157'	Gas
Sego	10,374'	Gas
Castlegate	10,506'	Gas
Blackhawk	10,890'	Gas
TVD =	11,490'	
TD =	11,572'	

2.c Kerr McGee Oil & Gas Onshore LP (Kerr McGee) may elect to drill to (i) the Blackhawk formation (part of the Mesaverde Group), (ii) to a shallower depth within the Mesaverde Group, or (iii) to the Wasatch Formation. If Kerr McGee drills to the Blackhawk formation, please refer to Blackhawk as the bottom formation. The attached Blackhawk Drilling Program includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the deeper formation.

If Kerr-McGee drills to a shallower depth in the Mesaverde Group or to the Wasatch Formation, please refer to the attached Wasatch/Mesaverde Drilling Program which includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the shallower formations.

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

4. <u>Proposed Casing & Cementing Program:</u>

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

5. <u>Drilling Fluids Program:</u>

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

6. <u>Evaluation Program</u>:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

7. <u>Abnormal Conditions</u>:

7.a Blackhawk (Part of Mesaverde Group)

Maximum anticipated bottom hole pressure calculated at 11490' TVD, approximately equals 7,354 psi (0.64 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 4,810 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

7.b Wasach Formation/Mesaverde Group

Maximum anticipated bottom hole pressure calculated at 10374' TVD, approximately equals 6,328 psi (0.61 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 4,073 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- · Blowout Prevention Equipment (BOPE) requirements;
- · Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may

be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached

Typically the blooic line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooic line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

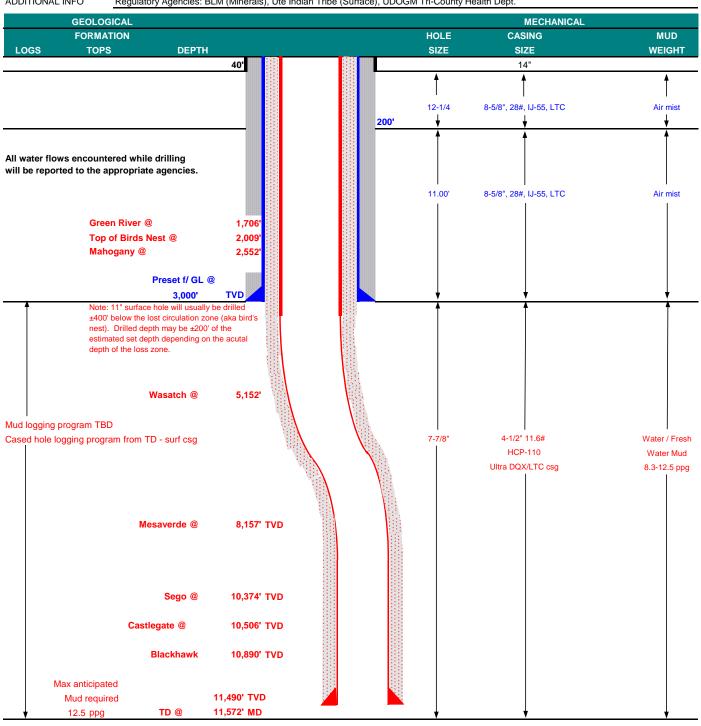
10. <u>Other Information:</u>

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program



KERR-McGEE OIL & GAS ONSHORE LP Blackhawk Drilling Program

COMPANY NAME KER	R-McGEE OIL &	GAS ONSHORE	LP		DATE	August 1, 2	August 1, 2012				
WELL NAME NB	J 921-17I1BS	}		TD	11,490'	TVD	11,572' MD				
FIELD Natural Buttes	3	COUNTY	Uintah :	STATE Utal	1	FINIS	SHED ELEVATION_	4,837'			
SURFACE LOCATION	NESE	1816 FSL	844 FEL	Sec 17	T 9S	R 21E					
	Latitude:	40.033815	Longitude	: -109.569	9196		NAD 83				
BTM HOLE LOCATION	NESE	2460 FSL	493 FEL	Sec 17	T 9S	R 21E					
	Latitude:	40.035583	Longitude	: -109.567	7948		NAD 83				
OBJECTIVE ZONE(S) BLACKHAWK (Part of the Mesaverde Group)											
ADDITIONAL INFO Regulatory Agencies: BLM (Minerals), Ute Indian Tribe (Surface), UDOGM Tri-County Health Dept.											



DESIGN FACTORS



KERR-McGEE OIL & GAS ONSHORE LP **Blackhawk Drilling Program**

CASING PROGRAM

CONDUCTOR

SURFACE **PRODUCTION**

									LTC	DQX
SIZE	INT	ERVAI	L _i	WT.	GR.	CPLG.	BURST COLLAPSE		TENSION	
14"	0-40'									
							3,390	1,880	348,000	N/A
8-5/8"	0	to	3,000	28.00	IJ-55	LTC	1.79	1.34	4.73	N/A
							10,690	8,650	279,000	367,174
4-1/2"	0	to	5,000	11.60	HCP-110	DQX	1.19	1.16		3.38
4-1/2"	5,000	to	11,572'	11.60	HCP-110	LTC	1.19	1.16	4.52	

Surface Casing:

(Burst Assumptions: TD =

12.5

0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above (Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @

9000

0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIG	HT	YIELD			
SURFACE	EAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15			
Option 1			+ 0.25 pps flocele								
TOP OUT CMT (6	jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15			
			+ 2% CaCl + 0.25 pps flocele								
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized									
Option 2	EAD	2,500'	Premium cmt + 16% Gel + 10 pps gilsonite	310	35%	12.00		2.86			
			+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps								
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15			
			+ 0.25 pps flocele								
TOP OUT	CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15			
PRODUCTION	EAD	4,652'	Premium Lite II +0.25 pps	360	35%	12.00		3.38			
			celloflake + 5 pps gilsonite + 10% gel								
			+ 0.5% extender								
	TAIL	6,920'	50/50 Poz/G + 10% salt + 2% gel	1,630	35%	14.30		1.31			
			+ 0.1% R-3								

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

PRODUCTION

Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. centralizer on the first 3 joints and one every third joint thereafter

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum inte	rvals.
----------------------------------------------	--------

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized

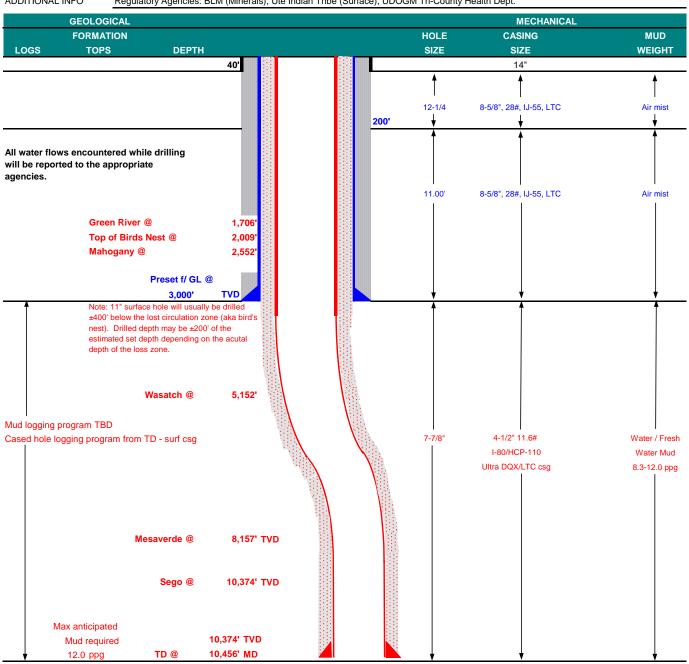
	mootinge nave i vi eyetemier maa	memering in her vi le avanable, vieuar memering viii be annibea.	
DRILLING	ENGINEER:		DATE:
		Nick Spence / Danny Showers / Travis Hansell	
DRILLING	SUPERINTENDENT:	,	DATE:
		Kenny Gathings / Lovel Young	

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained



KERR-McGEE OIL & GAS ONSHORE LP Wasatch/Mesaverde Drilling Program

COMPANY NAME KER	R-McGEE OIL	& GAS ONSHORE	LP		DATE	August 1,	August 1, 2012				
WELL NAME NB	S		TD	10,374'	TVD	10,456' MD					
FIELD Natural Butte	COUNTY Uintah STATE Utah			h	FINIS	SHED ELEVATION	4,837'	_			
SURFACE LOCATION	NESE	1816 FSL	844 FEL	Sec 17	T 9S	R 21E					
	Latitude:	40.033815	Longitude	: -109.56	9196		NAD 83				
BTM HOLE LOCATION	NESE	2460 FSL	493 FEL	Sec 17	T 9S	R 21E					
	Latitude:	40.035583	Longitude	: -109.56	7948		NAD 83				
OBJECTIVE ZONE(S)	Wasatch Forr	nation/Mesaverde									
ADDITIONAL INFO	Regulatory Ad	nencies: BI M (Min	erals) Ute Indi	ian Tribe (Su	ırface) U	DOGM Tri-Cou	nty Health Dept				





KERR-McGEE OIL & GAS ONSHORE LP

Wasatch/Mesaverde Drilling Program

CASING PROGRAM	1		DESIGN FACTORS								
				LTC	DQX						
	SIZE	INTERVAL			WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION	
CONDUCTOR	14"	C)-40'								
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	3,000	28.00	IJ-55	LTC	1.79	1.34	4.73	N/A
								7,780	6,350		267,035
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	0.98		2.70
								10,690	8,650	223,000	
	4-1/2"	5,000	to	10,456'	11.60	HCP-110	LTC	1.53	1.34	4.31	

Surface Casing:

(Burst Assumptions: TD = 12.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIG	HT	YIELD			
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15			
Option 1		+ 0.25 pps flocele								
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15			
		+ 2% CaCl + 0.25 pps flocele								
SURFACE	NOTE: If well will circulate water to surface, option 2 will be utilized									
Option 2 LEAD	2,500'	Premium cmt + 16% Gel + 10 pps gilsonite	310	35%	12.00		2.86			
		+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps								
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15			
		+ 0.25 pps flocele								
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15			
PRODUCTION LEAD	4,646'	Premium Lite II +0.25 pps	360	35%	12.00		3.38			
		celloflake + 5 pps gilsonite + 10% gel								
		+ 0.5% extender								
TAIL	5,810'	50/50 Poz/G + 10% salt + 2% gel	1,370	35%	14.30		1.31			
		+ 0.1% R-3								

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

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PRODUCTION Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well.

centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

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Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

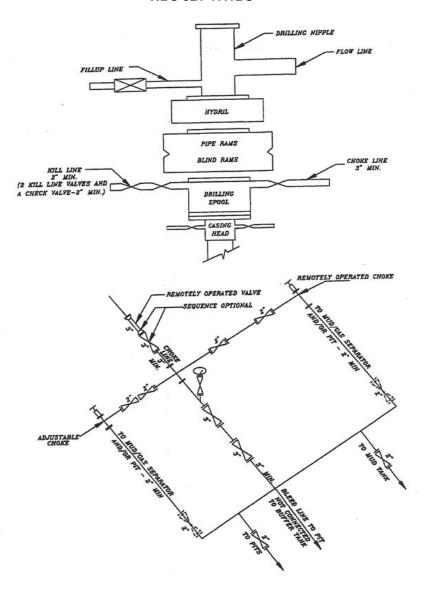
Kenny Gathings / Lovel Young

DRILLING ENGINEER:		DATE:	
	Nick Spence / Danny Showers / Travis Hansell	•	
DRILLING SUPERINTENDENT:		DATE:	

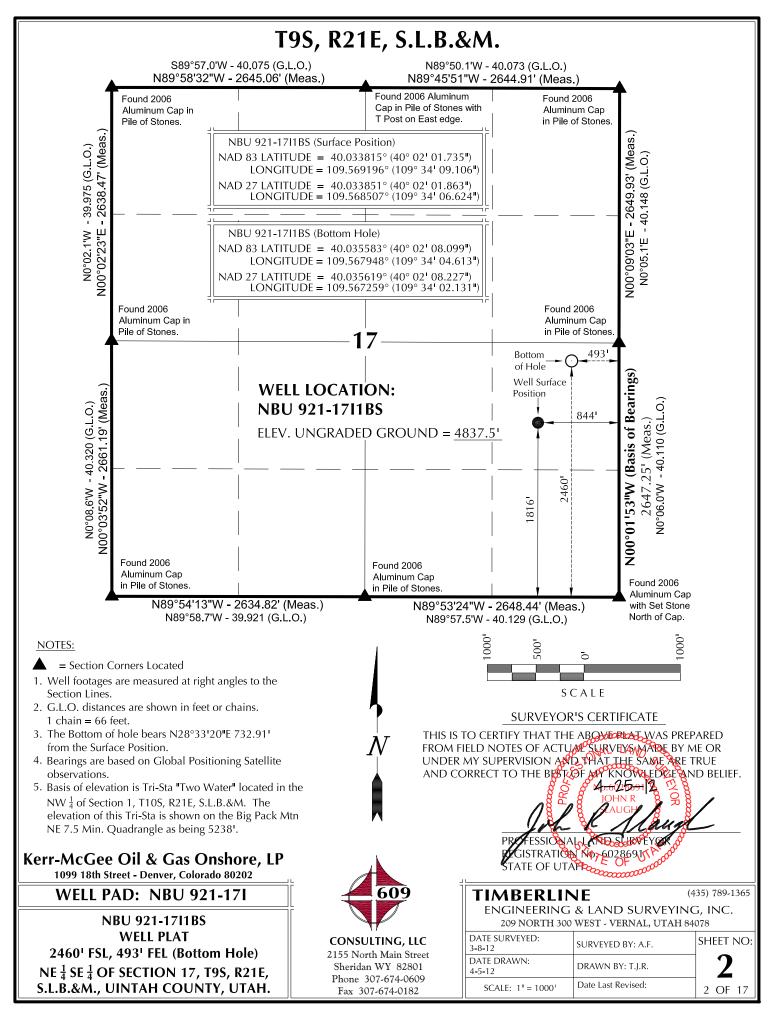
RECEIVED: December 20, 2012

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

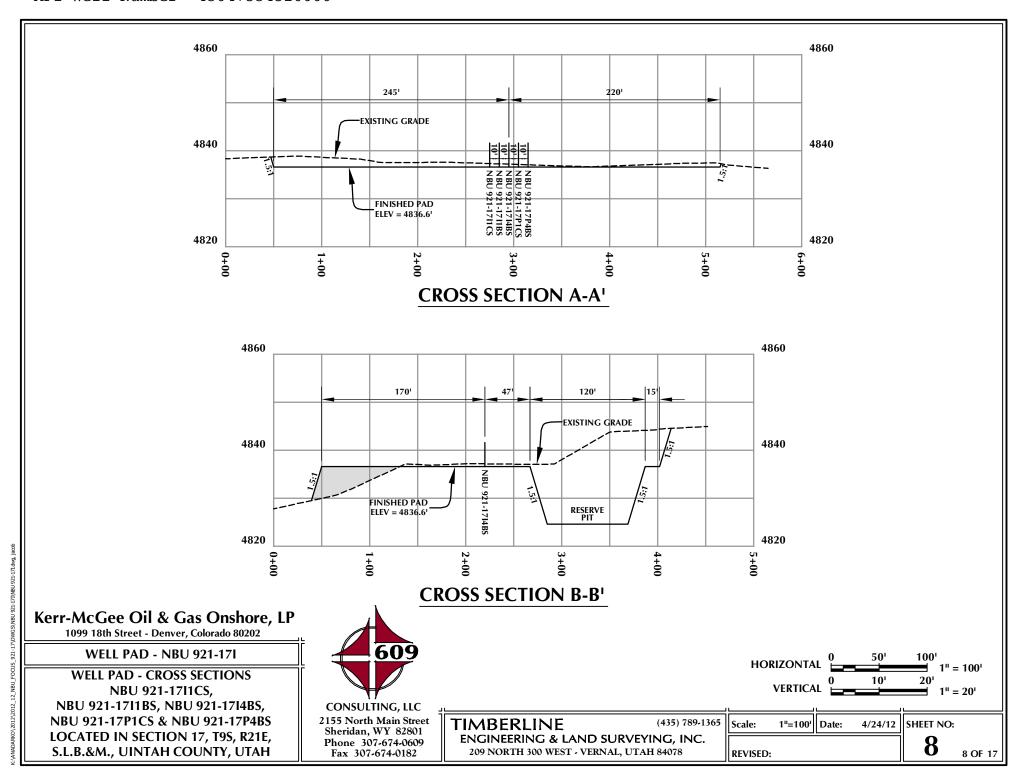
EXHIBIT A NBU 921-1711BS

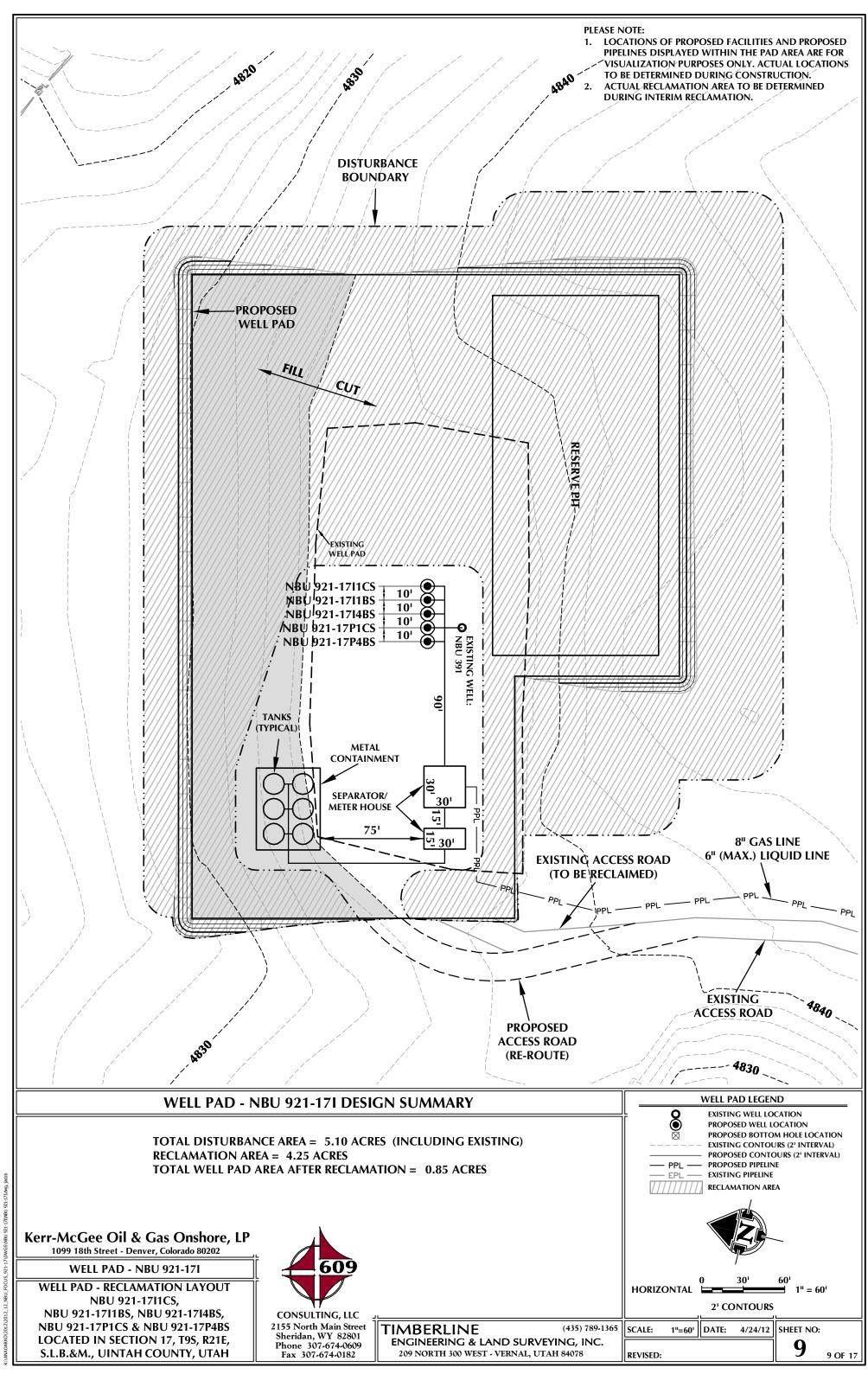


SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK



		9	SURFACE POSIT	ION				В	OTTOM HOLE		
WELL NAME	NAI			IAD27	UDE TOST		NAD		NAC		F007: 555
NBU	LATITUDE 40°02'01.758"	LONGITUD 109°34'08.98		LONGITU 36" 109°34'06			ATITUDE 02'04.217"	LONGITUDE 109°34'04.656"	LATITUDE 40°02'04 344"	LONGITUDE 109°34'02.173"	
921-17I1CS	40.033822°	109°34'08.98 109.569162°	40.033857°	109.56847	'2° 834'	FEL 40.	.034505°	109°34°04.656″ 109.567960°	40.034540°	109°34'02.173" 109.567270°	497' FEL
NBU 021 1711BS	40°02'01.735"	109°34'09.10		53" 109°34'06	.624" 1816	FSL 40°	02'08.099"	109°34'04.613"		109°34'02.131"	2460' FSL
921-17I1BS NBU	40.033815° 40°02'01.712"	109.569196° 109°34'09.23	40.033851° 2" 40°02'01.83	109.56850 59" 109°34'06			.035583° °02'01.421"	109.567948° 109°34'04.778"	40.035619° 40°02'01.548"	109.567259° 109°34'02.296"	493' FEL 1784' FSL
921-17I4BS	40.033809°	109.569231°	40.033844°	109.56854	2° 853'	FEL 40.	.033728°	109.567994°	40.033763°	109.567304°	507' FEL
NBU 921-17P1CS	40°02'01.689" 40.033802°	109°34'09.35 109.569265°	6" 40°02'01.81 40.033838°	6" 109°34'06 109.56857			°01'52.786" .031329°	109°34'04.579" 109.567938°	40°01'52.913" 40.031365°	109°34'02.097" 109.567249°	910' FSL 493' FEL
NBU	40°02'01.665"	109°34'09.48	2" 40°02'01.79	92" 109°34'07	.000" 1808	FSL 40°	01'49.515"	109°34'04.558"	40°01'49.643"	109.367249 109°34'02.076"	579' FSL
921-17P4BS	40.033796° 40°02'01.448"	109.569301° 109°34'09.28	40.033831° 0" 40°02'01.57				.030421°	109.567933°	40.030456°	109.567243°	492' FEL
NBU 391	40.033736°	109°34'09.28 109.569245°	40.033771°								
		•	RELATIV	E COORDINA	ATES - From S	Surface Pos	ition to Botto	om Hole			
WELL NAME	NORTH			NORTH		WELL NAM	ME NOR	TH EAST	WELL NAM	IE NORTH	EAST
NBU 921-1711CS	248.4'	33h 9' II	BU 21-1711BS	643.8'		NBU 921-1714B9	-29.	9' 346.5'	NBU 921-17P1C9	-901.6	370.6'
WELL NAME	NORTH	EAST	-				-			-	<u> </u>
NBU 021 17D4P6	-1230.2	381.6'	77	AZ. to Exist. W.H.=105.12. AZ. to Exist. W.H.=188.1544°, AZ. to Exist. W.H.=166.52972°, AZ. to Exist. W.H.=144.50611°,				4			
921-17P4BS			K. T	7. to . to to	1			. /			
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		1		35.1 88. 166	6.58		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<i>X</i> 0	28° 66	S/	
		Į.		154 .529 4.50	363° 222		₹\\$	\tilde{r}	595 18.7		
		•		Az. to Exist. W.H.=203.15.444°, 26.9° Az. to Exist. W.H.=188.15444°, 25.0° Az. to Exist. W.H.=166.52972°, 27.0° Az. to Exist. W.H.=144.50611°, 27.0°	t W.H.=216.58639° 39.1' 1		30/60	() 1 0 0 1 1 1 1 1 1 1	3.59528, 418.56 3.54, 418.66	1	1
		λT		26.9° ° 25.0′ ° 27.0	32.0°		`/	P125	THOM!		\
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				NBU 9	NBU 921 NBU 921 NBU 92	/		/			4
		M		92 92	1227	/	/				
.09	30'	-0	.09	7.	1777	· /	/				
				17P4BS	711BS 1714BS 17P1CS						
		`		45	P1CS ABS	s /	Az=94	.925200			
	SC	CALE		S	000	$\frac{1}{2}$ $\frac{S8}{1}$	3 <u>5°</u> 04'29	.92528° <u>"E - 347.78'</u>			/\
			_	. — — —	10' 10' 10'	10' ((To Botto	om Hole)			\mathcal{A}^{I}
		, –			10' 10' 10			.0(0)			<-\ -
	$76^{\circ}25'49''V$ = 256.430'	18°	STING WE	NBU 3	,91 [©] \						\
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Kerr-Mc				,	4	- 1	1				
	8th Street - De			≓⊧			;				
WEI	LL PAD -	NBU 92 ⁻	I-17I		60	<u> </u>	- 11	MBERL			35) 789-1365
W/FI I	PAD INTE	REFRENC	F PI AT	٦̈́F			E	NGINEERIN			
	WELLS - NBU				ONGUE	6 116	DATE	209 NORTH 3 E SURVEYED:		RNAL, UTAH 840	
	921-17I1BS,		,	III	ONSULTIN 55 North Ma		3-8-1		SURVEYED B	BY: A.F.	SHEET NO:
NBU 9	921-17P1CS	& NBU 921-	17P4BS	III.	heridan WY			DRAWN:	DRAWN BY:	T.J.R.	6
	TED IN SECT			Pl	hone 307-67	4-0609	4-5-1		Date Last Rev		U
S.L.B.	&M., UINTAI	1 COUNTY,	UIAH.	1	Fax 307-674	-0182		CALE: 1" = 60'	Suic East Net		6 OF 17





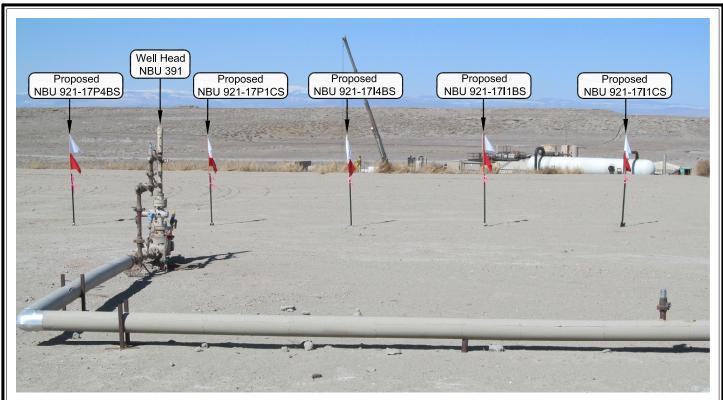


PHOTO VIEW: FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHERLY

Kerr-McGee Oil & Gas Onshore, LP 1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-171

LOCATION PHOTOS NBU 921-17I1CS, NBU 921-1711BS, NBU 921-1714BS, NBU 921-17P1CS & NBU 921-17P4BS LOCATED IN SECTION 17, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.



CONSULTING, LLC 2155 North Main Street Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

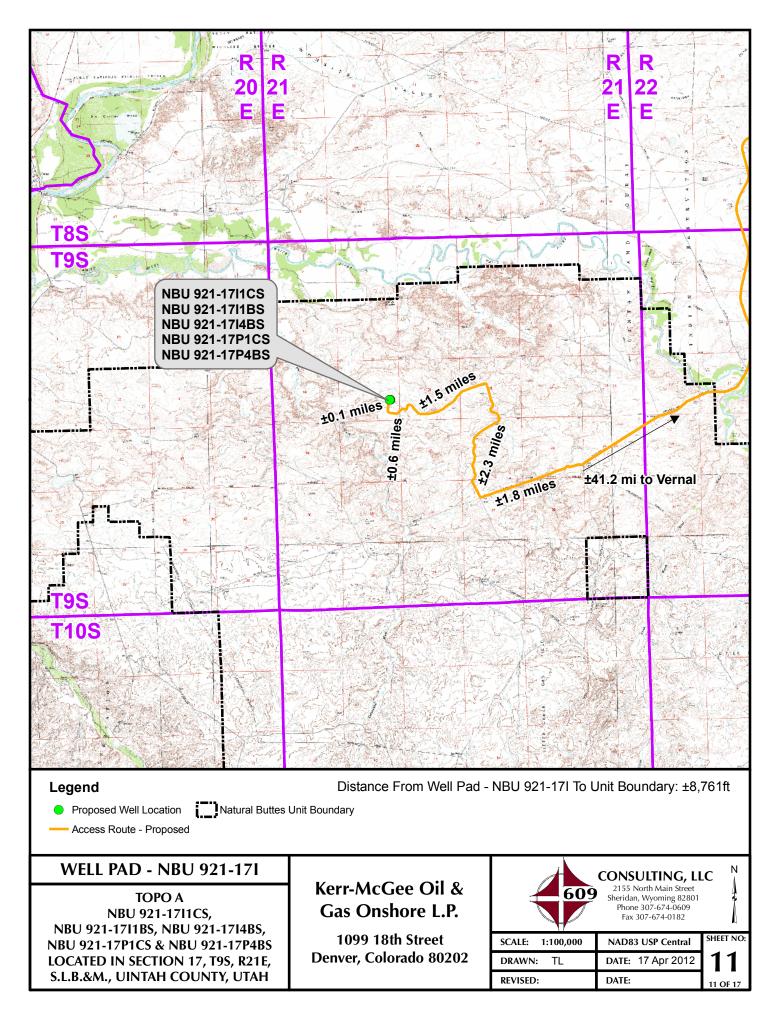
TIMBERLINE

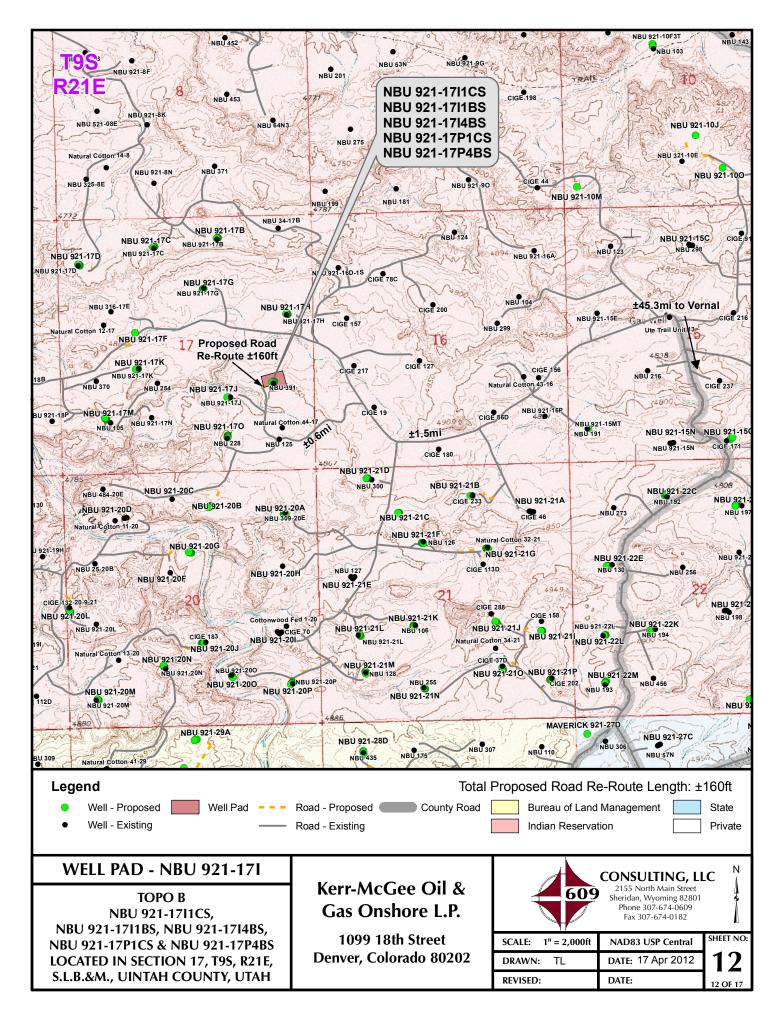
(435) 789-1365

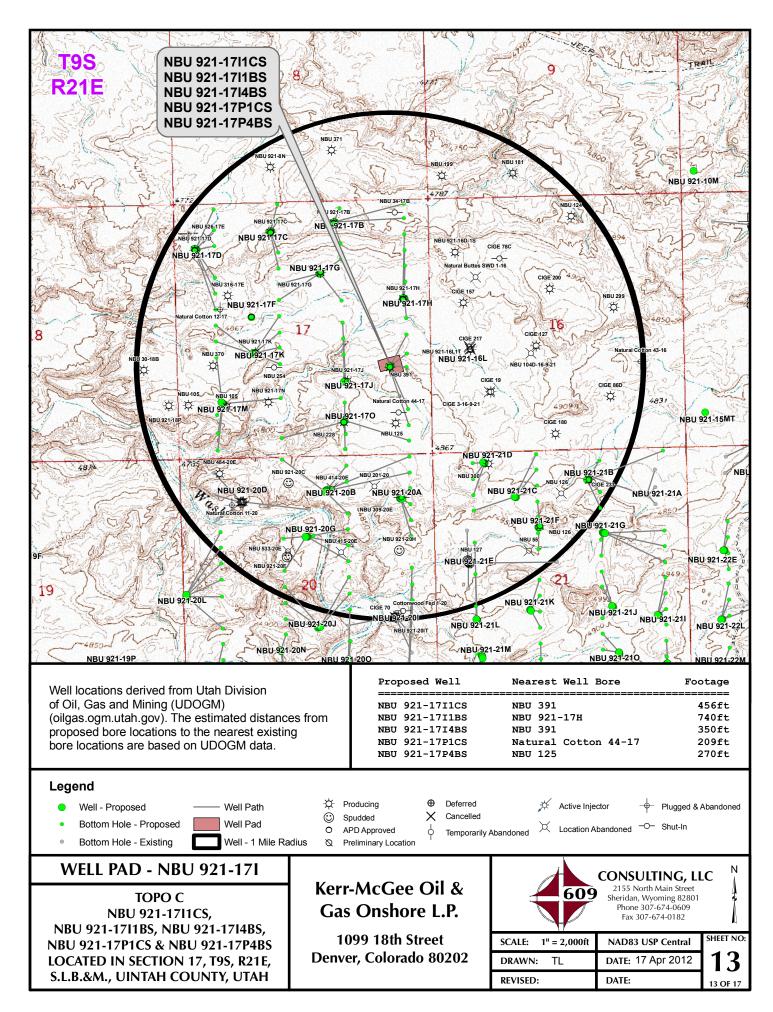
10 OF 17

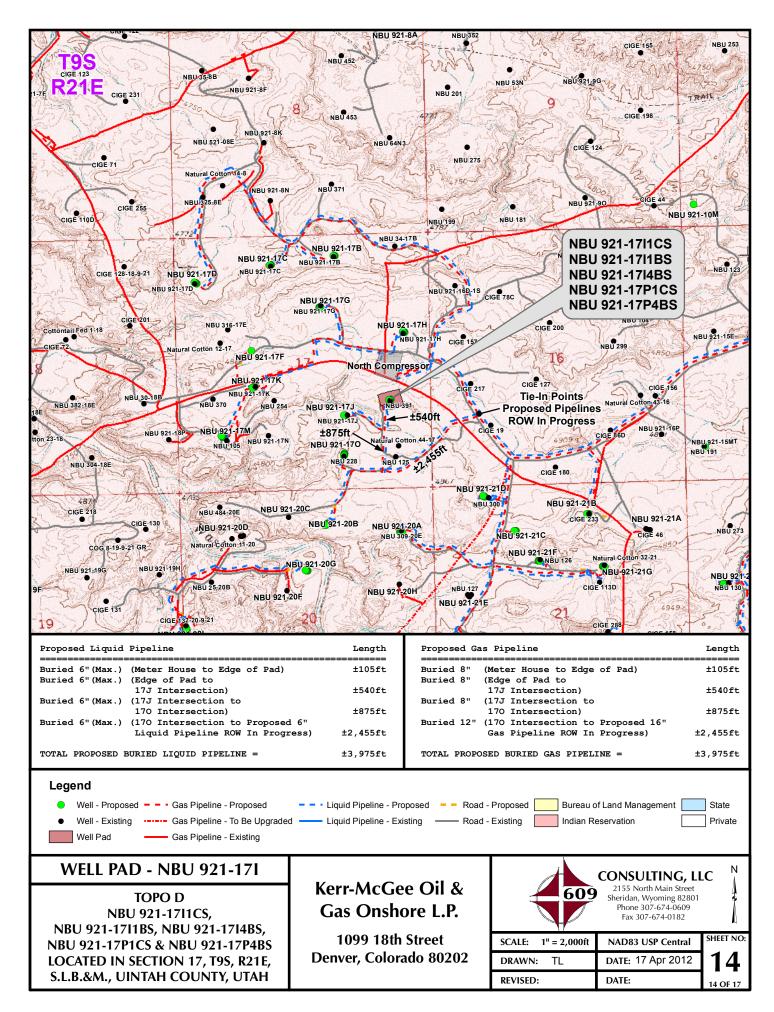
ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

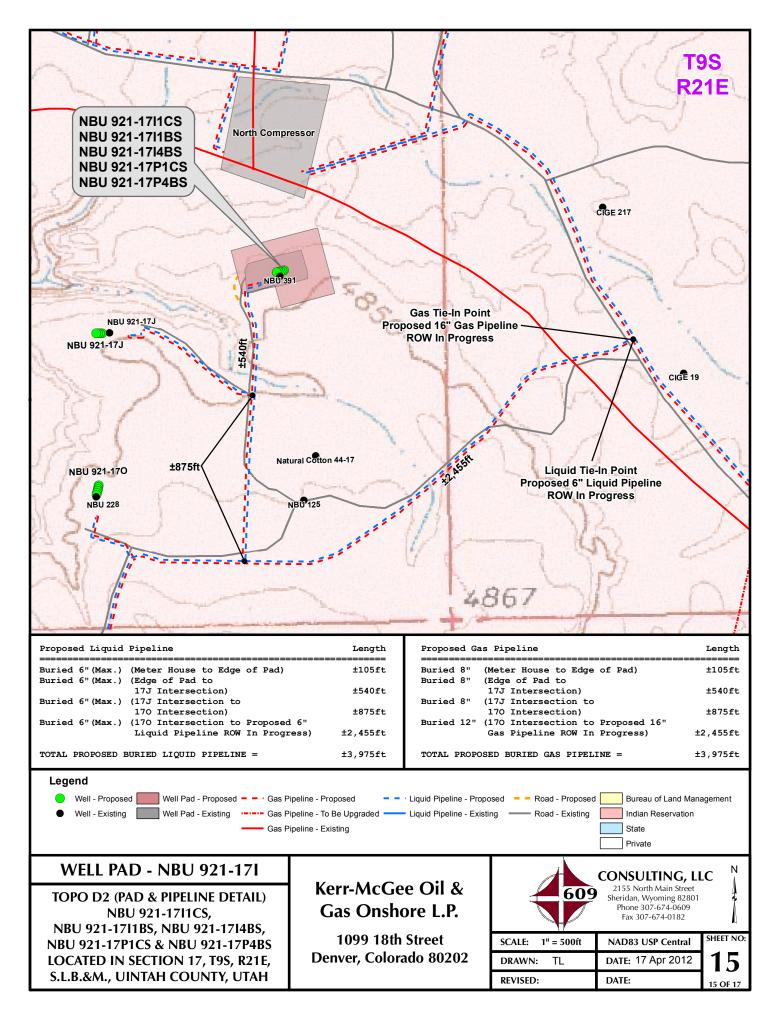
DATE PHOTOS TAKEN: 3-8-12	PHOTOS TAKEN BY: A.F.	SHEET NO
DATE DRAWN: 4-5-12	DRAWN BY: T.J.R.	10
Date Last Revised:		10 OF 1

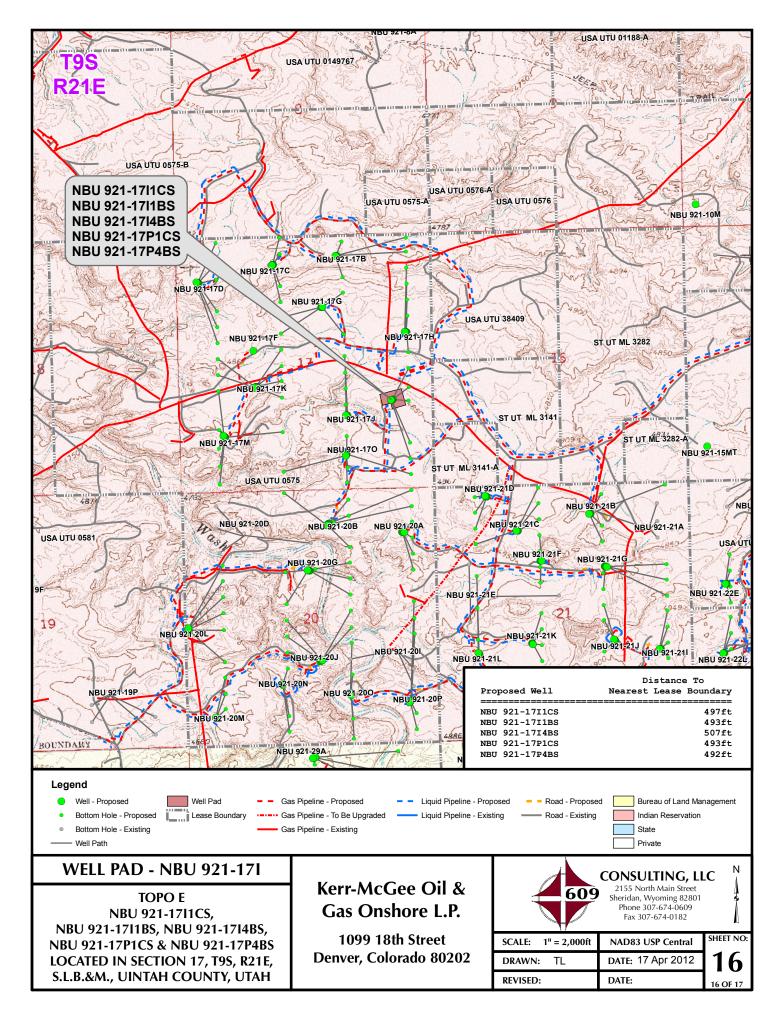












Kerr-McGee Oil & Gas Onshore, LP WELL PAD - NBU 921-17I WELLS - NBU 921-17I1CS, NBU 921-17I1BS, NBU 921-17I4BS, NBU 921-17P1CS & NBU 921-17P4BS SECTION 17, T9S, R21E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 17.7 miles to a Class D County Road to the southwest. Exit right and proceed in a southwesterly direction along the Class D County Road approximately 1.8 miles to a second Class D County Road to the north. Exit right and proceed in a northerly direction along the second Class D County Road approximately 2.3 miles to a Tribal Road to the southwest. Continue along the Tribal Road in a southwesterly, then northwesterly direction approximately 1.5 miles to a service road to the west. Exit left and proceed in a westerly, then southwesterly, then northerly direction along the service road approximately 0.6 miles to the proposed access road to the north. Follow road flags in a northerly direction approximately 160 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 47.4 miles in a southerly direction.

SHEET 17 OF 17

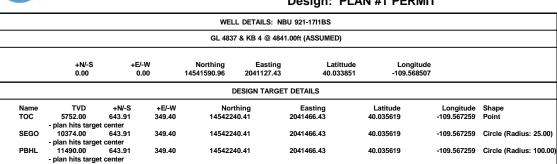
API Well Number: 43047534 520 OUTAH - UTM (feet), NAD27, Zone 12N Site: NBU 921-17I PAD

Scientific Drilling

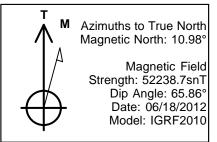
Well: NBU 921-17I1BS

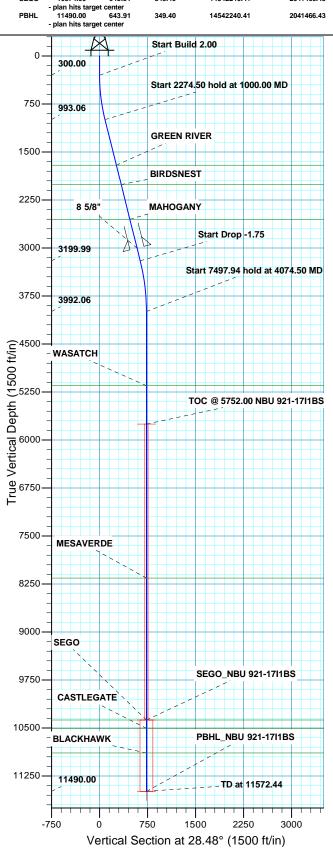
Wellbore: OH

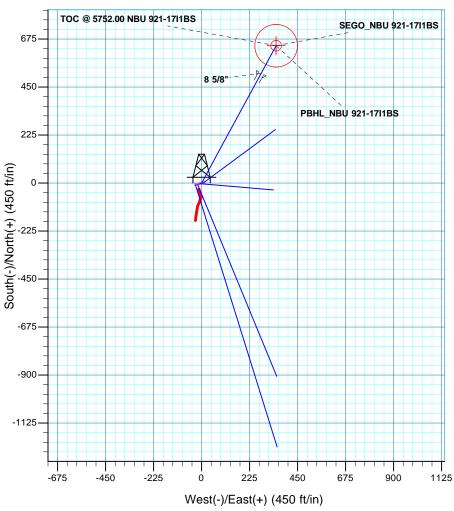
Design: PLAN #1 PERMIT











				SECTIO	N I	DETAILS			
MD	Inc	Azi	TVD	+N/-S	+F	-/-W Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00		0.00 0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00		0.00	0.00	0.00	
1000.00	14.00	28.48	993.06	74.79		0.58 2.00	28.48	85.10	
3274.50	14.00		3199.99			3.01 0.00	0.00	635.35	
4074.50	0.00		3992.06				180.00	732.60	
11572.44	0.00		11490.00	643.91		9.40 0.00	0.00	732.60	PBHL NBU 921-17I1BS
						F	ORMAT	ION TOP	DETAILS
PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N TVDPath MDPath Formation									
			1706.00		34.77	GREEN RIVER			
eodetic System: Univers				S Survey Fe	et)	2009.00	20	47.05	BIRDSNEST
Datum: NAD 192		CON CC	NUS)		-	2552.00	260	06.67	MAHOGANY
Ellipsoid: Clarke 1					-	5152.00	523	34.44	WASATCH
Zone: Zone 12					-	8157.00	823	39.44	MESAVERDE
Location: SECTIO	N17 T1	0S R21	E		-	10374.00	104	56.44	SEGO
System Datum: Mean Se	ea Level				-	10506.00	1058	38.44	CASTLEGATE
				10890.00	1097	72.44	BLACKHAWK		
				CASIN	G [DETAILS			
			TVD	М	n	Name	Size		
			3002.00	3070.4	_		8.625		

Created By: Gabe Kendall Date: 11:29, June 18 2012

RECEIVED:

API Well Number: 43047534520000



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N NBU 921-17I PAD NBU 921-17I1BS

OH

Plan: PLAN #1 PERMIT

Standard Planning Report

18 June, 2012



API Well Number: 43047534520000



SDIPlanning Report



Database: EDM 5000.1 Single User Db

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 921-17I PAD

 Well:
 NBU 921-17I1BS

Wellbore: OH

Design: PLAN #1 PERMIT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 921-17I1BS

GL 4837 & KB 4 @ 4841.00ft (ASSUMED) GL 4837 & KB 4 @ 4841.00ft (ASSUMED)

True

Minimum Curvature

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System: Universal Transverse Mercator (US Survey Feet)

 Geo Datum:
 NAD 1927 (NADCON CONUS)

 Map Zone:
 Zone 12N (114 W to 108 W)

Mean Sea Level

Site NBU 921-17I PAD, SECTION 17 T10S R21E

Northing: 14,541,593.30 usft Site Position: Latitude: 40.033857 From: Lat/Long Easting: 2,041,137.19 usft Longitude: -109.568472 **Position Uncertainty:** 0.00 ft Slot Radius: **Grid Convergence:** 0.92 13.200 in

System Datum:

Well NBU 921-17I1BS, 1816 FSL 844 FEL

 Well Position
 +N/-S
 -2.19 ft
 Northing:
 14,541,590.96 usft
 Latitude:
 40.033851

 +E/-W
 -9.80 ft
 Easting:
 2,041,127.42 usft
 Longitude:
 -109.568507

Position Uncertainty 0.00 ft Wellhead Elevation: Ground Level: 4,837.00 ft

Wellbore ОН Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (nT) (°) (°) IGRF2010 06/18/12 10.98 65.86 52.239

PLAN #1 PERMIT Design **Audit Notes:** Version: Phase: PLAN Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 28.48

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	14.00	28.48	993.06	74.79	40.58	2.00	2.00	0.00	28.48	
3,274.50	14.00	28.48	3,199.99	558.43	303.01	0.00	0.00	0.00	0.00	
4,074.50	0.00	0.00	3,992.06	643.91	349.40	1.75	-1.75	0.00	180.00	
11,572.44	0.00	0.00	11,490.00	643.91	349.40	0.00	0.00	0.00	0.00 PE	3HL_NBU 921-171





EDM 5000.1 Single User Db Database: Company: US ROCKIES REGION PLANNING Project:

UTAH - UTM (feet), NAD27, Zone 12N

NBU 921-17I PAD Site: Well: NBU 921-17I1BS

Wellbore: ОН

Design: PLAN #1 PERMIT Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well NBU 921-17I1BS

GL 4837 & KB 4 @ 4841.00ft (ASSUMED) GL 4837 & KB 4 @ 4841.00ft (ASSUMED)

True

100.00 0.00 0.00 100.00 100.00 0.00 0.0	ned Survey									
100.00 0.00 0.00 100.00 100.00 0.00 0.0	Depth			Depth			Section	Rate	Rate	Rate
Start Build 2.00	100.00 200.00	0.00 0.00	0.00 0.00	100.00 200.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00 0.00 0.00
500.00	Start Build 2.	.00								
600.00 6.00 28.48 698.75 13.79 7.48 15.69 2.00 2.00 0.0 700.00 8.00 28.48 698.70 24.50 13.30 27.88 2.00 2.00 0.0 800.00 10.00 28.48 895.62 55.02 29.86 62.60 2.00 2.00 0.0 1,000.00 14.00 28.48 993.66 74.79 40.58 85.10 2.00 2.00 0.0 1,000.00 14.00 28.48 1993.66 74.79 40.58 85.10 2.00 2.00 0.0 Start 227.450 hold at 1000.00 MD 1,100.00 14.00 28.48 1,187.11 117.32 63.66 133.48 0.00 0.00 0.00 1,200.00 14.00 28.48 1,187.11 117.32 63.66 133.48 0.00 0.00 0.00 1,300.00 14.00 28.48 1,284.14 138.59 75.20 157.67 0.00 0.00 0.00 1,300.00 14.00 28.48 1,381.17 159.85 86.74 181.87 0.00 0.00 0.00 1,400.00 14.00 28.48 1,381.17 159.85 86.74 181.87 0.00 0.00 0.00 1,600.00 14.00 28.48 1,787.20 20.38 109.81 230.25 0.00 0.00 0.00 1,734.77 14.00 28.48 1,7672.6 223.64 121.35 254.44 0.00 0.00 0.00 1,734.77 14.00 28.48 1,769.29 244.90 132.89 278.63 0.00 0.00 0.00 2,047.05 14.00 28.48 1,868.35 287.43 155.96 327.02 0.00 0.00 0.00 2,047.05 14.00 28.48 1,868.35 287.43 155.96 327.02 0.00 0.00 0.00 2,047.05 14.00 28.48 1,868.32 266.17 144.43 302.83 0.00 0.00 0.00 2,047.05 14.00 28.48 2,009.00 28.49 0.00 338.40 0.00 0.00 0.00 2,047.05 14.00 28.48 2,009.00 28.49 0.00 338.40 0.00 0.00 0.00 2,047.05 14.00 28.48 2,009.30 308.69 167.50 351.21 0.00 0.00 0.00 2,047.05 14.00 28.48 2,009.30 308.69 167.50 351.21 0.00 0.00 0.00 2,047.05 14.00 28.48 2,056.38 308.69 167.50 351.21 0.00 0.00 0.00 2,047.05 14.00 28.48 2,254.44 351.22 190.58 399.59 0.00 0.00 0.00 2,040.00 14.00 28.48 2,484.50 393.75 213.65 447.90 0.00 0.00 0.00 2,000.00 14.00 28.48 2,484.50 393.75 213.65 447.90 0.00 0.00 0.00 2,000.00 14.00 28.48 2,254.55 346.50 450.90 473.79 0.00 0.00 0.00 2,000.00 14.00 28.48 2,248.50 393.75 213.65 447.90 0.00 0.00 0.00 2,000.00 14.00 28.48 2,248.50 393.75 213.65 447.90 0.00 0.00 0.00 2,000.00 14.00 28.48 2,354.53 478.00 225.90 473.79 0.00 0.00 0.00 2,000.00 14.00 28.48 2,244.50 393.75 213.65 447.90 0.00 0.00 0.00 2,000.00 14.00 28.48 2,244.50 393.75 213.65 447.90 0.00 0.00 0.00 2,000.00 14.00 28.48 2,244.50 393.75 213.65 447.90 0.00 0.00 0.00 3,000.00 14.00	400.00	2.00	28.48	399.98	1.53	0.83	1.75	2.00	2.00	0.00
Start 2274.50 hold at 1000.00 MD	600.00 700.00 800.00	6.00 8.00 10.00	28.48 28.48 28.48	599.45 698.70 797.47	13.79 24.50 38.25	7.48 13.30 20.76	15.69 27.88 43.52	2.00 2.00 2.00	2.00 2.00 2.00	0.00 0.00 0.00 0.00 0.00
Start 2274.50 hold at 1000.00 MD	1 000 00	14.00	28.48	993.06	74 70	40.58	85 10	2.00	2.00	0.00
1,100,00				555.55	17.10	40.00	30.10	2.00	2.00	0.00
CREEN RIVER	1,100.00 1,200.00 1,300.00 1,400.00 1,500.00 1,600.00 1,700.00	14.00 14.00 14.00 14.00 14.00 14.00 14.00	28.48 28.48 28.48 28.48 28.48 28.48 28.48	1,187.11 1,284.14 1,381.17 1,478.20 1,575.23 1,672.26	117.32 138.59 159.85 181.11 202.38 223.64	63.66 75.20 86.74 98.27 109.81 121.35	133.48 157.67 181.87 206.06 230.25 254.44	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00
1,800.00			28.48	1,706.00	231.03	125.36	262.85	0.00	0.00	0.00
1,900.00										
BIRDSNEST	1,900.00	14.00	28.48	1,866.32	266.17	144.43	302.83	0.00	0.00	0.00 0.00 0.00
2,100.00 14.00 28.48 2,060.38 308.69 167.50 351.21 0.00 0.00 0.00 2,200.00 14.00 28.48 2,157.41 329.96 179.04 375.40 0.00 0.00 0.00 0.00 2,300.00 14.00 28.48 2,254.44 351.22 190.58 399.59 0.00 0.00 0.00 0.00 2,400.00 14.00 28.48 2,351.47 372.48 202.12 423.79 0.00 0.00 0.00 2,500.00 14.00 28.48 2,448.50 393.75 201.65 447.98 0.00 0.00 0.00 2,600.00 14.00 28.48 2,545.53 415.01 225.19 472.17 0.00 0.00 0.00 2,600.667 14.00 28.48 2,552.00 416.43 225.96 473.79 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	2,047.05	14.00	28.48	2,009.00	297.43	161.39	338.40	0.00	0.00	0.00
2,400.00	2,100.00									0.00 0.00
2,700.00 14.00 28.48 2,642.56 436.28 236.73 496.36 0.00 0.00 0.00 2,800.00 14.00 28.48 2,739.59 457.54 248.27 520.56 0.00 0.00 0.00 2,900.00 14.00 28.48 2,836.62 478.80 259.80 544.75 0.00 0.00 0.00 3,000.00 14.00 28.48 2,933.65 500.07 271.34 568.94 0.00 0.00 0.00 3,070.45 14.00 28.48 3,002.00 515.05 279.47 585.98 0.00 0.00 0.00 8 5/8" 3,100.00 14.00 28.48 3,030.68 521.33 282.88 593.13 0.00 0.00 0.0 3,200.00 14.00 28.48 3,127.71 542.59 294.42 617.32 0.00 0.00 0.0 3,274.50 14.00 28.48 3,199.99 558.43 303.01 635.35 0.00 0.00 0.0 Start Drop -1.75 3,300.00 13.55	2,400.00 2,500.00 2,600.00 2,606.67	14.00 14.00 14.00	28.48 28.48 28.48	2,351.47 2,448.50 2,545.53	372.48 393.75 415.01	202.12 213.65 225.19	423.79 447.98 472.17	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
2,800.00										
3,100.00 14.00 28.48 3,030.68 521.33 282.88 593.13 0.00 0.00 0.00 3,200.00 14.00 28.48 3,127.71 542.59 294.42 617.32 0.00 0.00 0.00 0.0 3,274.50 14.00 28.48 3,199.99 558.43 303.01 635.35 0.00 0.00 0.00 0.00 Start Drop -1.75 3,300.00 13.55 28.48 3,224.76 563.77 305.91 641.42 1.75 -1.75 0.0 3,400.00 11.80 28.48 3,322.32 583.06 316.38 663.37 1.75 -1.75 0.0	2,800.00 2,900.00 3,000.00 3,070.45	14.00 14.00 14.00	28.48 28.48 28.48	2,739.59 2,836.62 2,933.65	457.54 478.80 500.07	248.27 259.80 271.34	520.56 544.75 568.94	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
3,200.00 14.00 28.48 3,127.71 542.59 294.42 617.32 0.00 0.00 0.00 3,274.50 14.00 28.48 3,199.99 558.43 303.01 635.35 0.00 0.00 0.00 Start Drop -1.75 3,300.00 13.55 28.48 3,224.76 563.77 305.91 641.42 1.75 -1.75 0.0 3,400.00 11.80 28.48 3,322.32 583.06 316.38 663.37 1.75 -1.75 0.0	8 5/8"									
3,300.00 13.55 28.48 3,224.76 563.77 305.91 641.42 1.75 -1.75 0.0 3,400.00 11.80 28.48 3,322.32 583.06 316.38 663.37 1.75 -1.75 0.0	3,200.00	14.00	28.48	3,127.71	542.59	294.42	617.32	0.00	0.00	0.00 0.00 0.00
3 500 00 10 05 28 48 3 420 50 599 73 325 42 682 33 1 75 -1 75 0 0	3,300.00	13.55								0.00 0.00
3,600.00 8.30 28.48 3,519.22 613.75 333.03 698.28 1.75 -1.75 0.0 3,700.00 6.55 28.48 3,618.37 625.11 339.19 711.21 1.75 -1.75 0.0 3,800.00 4.80 28.48 3,717.88 633.81 343.91 721.10 1.75 -1.75 0.0	3,700.00 3,800.00	6.55 4.80	28.48 28.48	3,618.37 3,717.88	625.11 633.81	339.19 343.91	711.21 721.10	1.75 1.75	-1.75 -1.75	0.00 0.00 0.00 0.00 0.00
										0.00





Database: Company: Project: EDM 5000.1 Single User Db US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 921-17I PAD

 Well:
 NBU 921-17I1BS

ОН

Wellbore:

Design: PLAN #1 PERMIT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 921-17I1BS

GL 4837 & KB 4 @ 4841.00ft (ASSUMED) GL 4837 & KB 4 @ 4841.00ft (ASSUMED)

True

Design:	PLAN #1 PER	MIT							
Planned Survey									
Trainiou our voy									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
4,074.50	0.00	0.00	3,992.06	643.91	349.40	732.60	1.75	-1.75	0.00
Start 7497.94	hold at 4074.50	MD							
4,100.00	0.00	0.00	4,017.56	643.91	349.40	732.60	0.00	0.00	0.00
4,200.00	0.00	0.00	4,117.56	643.91	349.40	732.60	0.00	0.00	0.00
4,300.00	0.00	0.00	4,217.56	643.91	349.40	732.60	0.00	0.00	0.00
4,400.00	0.00	0.00	4,317.56	643.91	349.40	732.60	0.00	0.00	0.00
4,500.00	0.00	0.00	4,417.56	643.91	349.40	732.60	0.00	0.00	0.00
4,600.00	0.00	0.00	4,517.56	643.91	349.40	732.60	0.00	0.00	0.00
4,700.00	0.00	0.00	4,617.56	643.91	349.40	732.60 732.60	0.00	0.00 0.00	0.00
4,800.00	0.00	0.00	4,717.56	643.91	349.40		0.00		0.00
4,900.00	0.00	0.00	4,817.56	643.91	349.40	732.60	0.00	0.00	0.00
5,000.00	0.00	0.00	4,917.56	643.91	349.40	732.60	0.00	0.00	0.00
5,100.00	0.00	0.00	5,017.56	643.91	349.40	732.60	0.00	0.00	0.00
5,200.00	0.00	0.00	5,117.56	643.91	349.40	732.60	0.00	0.00	0.00
5,234.44	0.00	0.00	5,152.00	643.91	349.40	732.60	0.00	0.00	0.00
WASATCH									
5,300.00	0.00	0.00	5,217.56	643.91	349.40	732.60	0.00	0.00	0.00
5,400.00	0.00	0.00	5,317.56	643.91	349.40	732.60	0.00	0.00	0.00
5,500.00	0.00	0.00	5,417.56	643.91	349.40	732.60	0.00	0.00	0.00
5,600.00	0.00	0.00	5,517.56	643.91	349.40	732.60	0.00	0.00	0.00
5,700.00	0.00	0.00	5,617.56	643.91	349.40	732.60	0.00	0.00	0.00
5,800.00	0.00	0.00	5,717.56	643.91	349.40	732.60	0.00	0.00	0.00
5,834.44	0.00	0.00	5,752.00	643.91	349.40	732.60	0.00	0.00	0.00
TOC @ 5752.0	00 NBU 921-171 [,]								
5,900.00	0.00	0.00	5,817.56	643.91	349.40	732.60	0.00	0.00	0.00
6,000.00	0.00	0.00	5,917.56	643.91	349.40	732.60	0.00	0.00	0.00
6,100.00	0.00	0.00	6,017.56	643.91	349.40	732.60	0.00	0.00	0.00
6,200.00	0.00	0.00	6,117.56	643.91	349.40	732.60	0.00	0.00	0.00
6,300.00	0.00	0.00	6,217.56	643.91	349.40	732.60	0.00	0.00	0.00
6,400.00	0.00	0.00	6,317.56	643.91	349.40	732.60	0.00	0.00	0.00
6,500.00	0.00	0.00	6,417.56	643.91	349.40	732.60	0.00	0.00	0.00
6,600.00	0.00	0.00	6,517.56	643.91	349.40	732.60	0.00	0.00	0.00
6,700.00	0.00	0.00	6,617.56	643.91	349.40	732.60	0.00	0.00	0.00
6,800.00	0.00	0.00	6,717.56	643.91	349.40	732.60	0.00	0.00	0.00
6,900.00	0.00	0.00	6,817.56	643.91	349.40	732.60	0.00	0.00	0.00
7,000.00	0.00	0.00	6,917.56	643.91	349.40	732.60	0.00	0.00	0.00
7,100.00	0.00	0.00	7,017.56	643.91	349.40	732.60	0.00	0.00	0.00
7,200.00	0.00	0.00	7,117.56	643.91	349.40	732.60	0.00	0.00	0.00
7,300.00	0.00	0.00	7,217.56	643.91	349.40	732.60	0.00	0.00	0.00
7,400.00	0.00	0.00	7,317.56	643.91	349.40	732.60	0.00	0.00	0.00
7,500.00	0.00	0.00	7,417.56	643.91	349.40	732.60 732.60	0.00	0.00	0.00
7,600.00	0.00	0.00	7,517.56	643.91	349.40		0.00	0.00	0.00
7,700.00	0.00	0.00	7,617.56	643.91	349.40	732.60	0.00	0.00	0.00
7,800.00	0.00	0.00	7,717.56	643.91	349.40	732.60	0.00	0.00	0.00
7,900.00	0.00	0.00	7,817.56	643.91	349.40	732.60	0.00	0.00	0.00
8,000.00 8,100.00	0.00 0.00	0.00 0.00	7,917.56 8,017.56	643.91 643.91	349.40 349.40	732.60 732.60	0.00 0.00	0.00 0.00	0.00 0.00
1									
8,200.00	0.00	0.00	8,117.56	643.91	349.40	732.60	0.00	0.00	0.00
8,239.44	0.00	0.00	8,157.00	643.91	349.40	732.60	0.00	0.00	0.00
MESAVERDE									
8,300.00	0.00	0.00	8,217.56	643.91	349.40	732.60	0.00	0.00	0.00
8,400.00	0.00	0.00	8,317.56	643.91	349.40	732.60	0.00	0.00	0.00
8,500.00	0.00	0.00	8,417.56	643.91	349.40	732.60	0.00	0.00	0.00





Database: Company: Project: EDM 5000.1 Single User Db US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 921-17I PAD

 Well:
 NBU 921-17I1BS

Wellbore: OH

Design: PLAN #1 PERMIT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 921-17I1BS

GL 4837 & KB 4 @ 4841.00ft (ASSUMED) GL 4837 & KB 4 @ 4841.00ft (ASSUMED)

True

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,600.00	0.00	0.00	8,517.56	643.91	349.40	732.60	0.00	0.00	0.00
8,700.00	0.00	0.00	8,617.56	643.91	349.40	732.60	0.00	0.00	0.00
8,800.00	0.00	0.00	8,717.56	643.91	349.40	732.60	0.00	0.00	0.00
8,900.00	0.00	0.00	8,817.56	643.91	349.40	732.60	0.00	0.00	0.00
9,000.00	0.00	0.00	8,917.56	643.91	349.40	732.60	0.00	0.00	0.00
9,100.00	0.00	0.00	9,017.56	643.91	349.40	732.60	0.00	0.00	0.00
9,200.00	0.00	0.00	9,117.56	643.91	349.40	732.60	0.00	0.00	0.00
9,300.00	0.00	0.00	9,217.56	643.91	349.40	732.60	0.00	0.00	0.00
9,400.00	0.00	0.00	9,317.56	643.91	349.40	732.60	0.00	0.00	0.00
9,500.00	0.00	0.00	9,417.56	643.91	349.40	732.60	0.00	0.00	0.00
9,600.00	0.00	0.00	9,517.56	643.91	349.40	732.60	0.00	0.00	0.00
9,700.00	0.00	0.00	9,617.56	643.91	349.40	732.60	0.00	0.00	0.00
9,800.00	0.00	0.00	9,717.56	643.91	349.40	732.60	0.00	0.00	0.00
9,900.00	0.00	0.00	9,817.56	643.91	349.40	732.60	0.00	0.00	0.00
10,000.00	0.00	0.00	9,917.56	643.91	349.40	732.60	0.00	0.00	0.00
10,100.00	0.00	0.00	10,017.56	643.91	349.40	732.60	0.00	0.00	0.00
10,200.00	0.00	0.00	10,117.56	643.91	349.40	732.60	0.00	0.00	0.00
10,300.00	0.00	0.00	10,217.56	643.91	349.40	732.60	0.00	0.00	0.00
10,400.00	0.00	0.00	10,317.56	643.91	349.40	732.60	0.00	0.00	0.00
10,456.44	0.00	0.00	10,374.00	643.91	349.40	732.60	0.00	0.00	0.00
SEGO - SEG	O_NBU 921-17I1	IBS							
10,500.00	0.00	0.00	10,417.56	643.91	349.40	732.60	0.00	0.00	0.00
10,588.44	0.00	0.00	10,506.00	643.91	349.40	732.60	0.00	0.00	0.00
CASTLEGAT									
10,600.00	0.00	0.00	10,517.56	643.91	349.40	732.60	0.00	0.00	0.00
10,700.00	0.00	0.00	10,617.56	643.91	349.40	732.60	0.00	0.00	0.00
10,800.00	0.00	0.00	10,717.56	643.91	349.40	732.60	0.00	0.00	0.00
10,900.00	0.00	0.00	10,817.56	643.91	349.40	732.60	0.00	0.00	0.00
10,972.44	0.00	0.00	10,890.00	643.91	349.40	732.60	0.00	0.00	0.00
BLACKHAW	'K								
11,000.00	0.00	0.00	10,917.56	643.91	349.40	732.60	0.00	0.00	0.00
11,100.00	0.00	0.00	11,017.56	643.91	349.40	732.60	0.00	0.00	0.00
11,200.00	0.00	0.00	11,117.56	643.91	349.40	732.60	0.00	0.00	0.00
11,300.00	0.00	0.00	11,217.56	643.91	349.40	732.60	0.00	0.00	0.00
11,400.00	0.00	0.00	11,317.56	643.91	349.40	732.60	0.00	0.00	0.00
11,500.00	0.00	0.00	11,417.56	643.91	349.40	732.60	0.00	0.00	0.00
11,572.44	0.00	0.00	11,490.00	643.91	349.40	732.60	0.00	0.00	0.00





Database: EDM Company: US F Project: UTA

EDM 5000.1 Single User Db US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 921-17I PAD

 Well:
 NBU 921-17I1BS

Wellbore: OH

Design: PLAN #1 PERMIT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 921-17I1BS

GL 4837 & KB 4 @ 4841.00ft (ASSUMED) GL 4837 & KB 4 @ 4841.00ft (ASSUMED)

True

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TOC @ 5752.00 NBU 92 - plan hits target cer - Point		0.00	5,752.00	643.91	349.40	14,542,240.40	2,041,466.42	40.035619	-109.567259
SEGO_NBU 921-17I1BS - plan hits target cer - Circle (radius 25.0	nter	0.00	10,374.00	643.91	349.40	14,542,240.40	2,041,466.42	40.035619	-109.567259
PBHL_NBU 921-17I1BS - plan hits target cer - Circle (radius 100.	nter	0.00	11,490.00	643.91	349.40	14,542,240.40	2,041,466.42	40.035619	-109.567259

Casing Points						
	Measured	Vertical		Casing	Hole	
	Depth	Depth		Diameter	Diameter	
	(ft)	(ft)	Name	(in)	(in)	
	3,070.45	3,002.00 8 5/8"		8.625	11.000	

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,734.77	1,706.00	GREEN RIVER				
	2,047.05	2,009.00	BIRDSNEST				
	2,606.67	2,552.00	MAHOGANY				
	5,234.44	5,152.00	WASATCH				
	8,239.44	8,157.00	MESAVERDE				
	10,456.44	10,374.00	SEGO				
	10,588.44	10,506.00	CASTLEGATE				
	10,972.44	10,890.00	BLACKHAWK				

Plan Annotations				
Measured	Vertical	Local Co	ordinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
300.0	0 300.00	0.00	0.00	Start Build 2.00
1,000.0	0 993.06	74.79	40.58	Start 2274.50 hold at 1000.00 MD
3,274.5	0 3,199.99	558.43	303.01	Start Drop -1.75
4,074.5	3,992.06	643.91	349.40	Start 7497.94 hold at 4074.50 MD
11,572.4	4 11,490.00	643.91	349.40	TD at 11572.44

Surface Use Plan of Operations 1 of 14

NBU 921-17I1BS/921-17I1CS/ 921-17I4BS/ 921-17P1CS/ 921-17P4BS Kerr-McGee Oil Gas Onshore, L.P.

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 921-17I Pad

<u>API #</u>	NBU 921-17I1BS		
Surface	: 1816 FSL / 844 FEL	NESE	Lot
BHL	.: 2460 FSL / 493 FEL	NESE	Lot
ADL //	NIDU 004 4714 00		
<u>API #</u>	NBU 921-17I1CS	_	
Surface	e: 1818 FSL / 834 FEL	NESE	Lot
BHL	.: 2067 FSL / 497 FEL	NESE	Lot
<u>API #</u>	NBU 921-17I4BS		
Surface	: 1813 FSL / 853 FEL	NESE	Lot
BHL	.: 1784 FSL / 507 FEL	NESE	Lot
A DL #	NIDU 024 47D400		
<u>API #</u>	NBU 921-17P1CS	_	
Surface	: 1811 FSL / 863 FEL	NESE	Lot
BHL	.: 910 FSL / 493 FEL	SESE	Lot
ADL //	NIDU 004 47D4DC		
<u>API #</u>	NBU 921-17P4BS	_	
Surface	:: 1808 FSL / 873 FEL	NESE	Lot
BHL	.: 579 FSL / 492 FEL	SESE	Lot

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on May 8, 2012. Present were:

- · David Gordon, Melissa Wardle, Tyler Cox BLM;
- Bucky Secakuku BIA;
- · Brad Pinecoose Ute Indian Tribe;
- · Amy Ackman Montgomery Archeological Consultants Inc.;
- · Scott Carson Smiling Lake Consulting;
- John Slaugh, Mitch Batty Timberline Engineering & Land Surveying, Inc.;
- Danielle Piernot, Raleen White, Doyle Holmes, Rod Anderson, Charles Chase Kerr-McGee
- · Tim Horgan-Kobelski Grasslands Consulting, Inc.
- Justin Strauss SWCA Environmental Consultants

A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will, in accordance with BMPs, improve or maintain existing roads in a condition

that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Please refer to Topo B, for existing roads.

B. New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BIA.

Each new well pad or pad expansion may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts, bridges, low water crossings, range infrastructure, and haul routes, as per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met. As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s), as necessary.

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activity will not be conducted using frozen or saturated materials or during periods when significant watershed damage

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(e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating conditions. All vehicular traffic, personnel movement, construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

The following segments will require a ROW to be submitted under a different cover to the Ute Indian Tribe.

 $\pm 160'$ (0.03 miles) – Section 17 (NE/4 SE/4) T9S R21E – On lease UTU0575 Ute Indian Tribe surface, road re-route from the edge of the pad to the existing road to the west. Please refer to Topo B.

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

This pad will expand the existing pad for the NBU 391, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on July 24, 2012. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accommodate a 25 year rainfall event. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

GAS GATHERING

Please refer to Topo D2- Pad and Pipeline Detail.

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent). The total gas gathering pipeline distance from the meter to the tie in point is $\pm 3,975$ ' and the individual segments are broken up as follows:

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The following segments will require a ROW to be submitted under a different cover to the Ute Indian Tribe.

±3,975' (0.8 miles) – Section 17 and 16 T9S R21E– On-lease UTU0575, ML 3141-A and ML 3141 Ute Indian Tribe Surface, New 8" and 12" buried gas gathering pipeline from the meter to a proposed 16" gas pipeline ROW in progress. Please refer to Topo D2 - Pad and Pipeline Detail.

LIQUID GATHERING

Please refer to Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 3,975$ ' and the individual segments are broken up as follows:

The following segments will require a ROW to be submitted under a different cover to the Ute Indian Tribe.

±3,975' (0.8 miles) – Section 17 and 16 T9S R21E– On-lease UTU0575, ML 3141-A and ML 3141 Ute Indian Tribe and SITLA Surface, New 6" buried liquid gathering pipeline from the meter to a proposed 6" liquid pipeline ROW in progress. Please refer to Topo D2 - Pad and Pipeline Detail.

Pipeline Gathering Construction

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee. Gas gathering pipeline(s,) gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45 ft for buried lines and 30 ft for surface lines. In addition, Kerr-McGee requests for a permanent 30' disturbance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent disturbance width is for maintenance and repairs. Cross country permanent disturbance width also are required to be 30ft.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

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Typically, to install a buried pipeline, topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route's intersection with an access road.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface.

Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

When no longer deemed necessary by the operator, Kerr-McGee or it's successor will consult with the Vernal BIA Office before terminating of the use of the pipeline(s).

The Anadarko Completions Transportation System (ACTS) information:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one storage area to be constructed on the drilling pad or a traditional drilling operation with one pit. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to

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allow for completion operations. The completion operations pit is lined and will be used for the wells drilled on the pad or used as part of our Anadarko Completions Transportation (ACTS) system which is discussed in more detail below. Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completion pit.

If Kerr-McGee does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use in completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit will be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows when a traditional drill pit is used: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit.

All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit.

ACTS will require temporarily laying multiple 6" aluminum water transfer lines on the surface between either existing or refurbished reserve pits. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The temporary ACTS lines will be permitted under a separate cover to the Ute Indian Tribe.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production of the first produced well on the pad. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. If the pit is not needed for an entire year it will be backfilled and reclaimed earlier. Kerr-McGee understands that due to the temporary nature of this system, BIA considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BIA.

E. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the following sources:

JD Field Services:

Green River: 1087' FSL & 1020' FEL, Sec. 15 – T2N – R22E

RN Industries:

High Pressure: 705' FNL & 675' FWL, Sec. 1 – T6S – R22E

1057' FNL & 390' FWL, Sec. 1 – T6S – R22E 1239' FNL & 52' FEL, Sec. 6 – T6S – R23E

White River: 501' FNL & 1676' FEL, Sec. 9 – T8S – R20E

471' FNL & 1676' FEL, Sec. 9 – T8S – R20E 900' FNL & 550' FEL, Sec. 35 – T9S – R22E 200' FNL & 950' FEL, Sec. 2 – T10S – R22E 275' FSL & 2275' FEL, Sec. 2 – T10S – R22E 122' FSL & 1350' FEL, Sec. 11 – T10S – R22E 1670' FSL & 500' FEL, Sec. 12 – T10S – R22E 959' FNL & 705' FEL, Sec. 13 – T10S – R22E 600' FSL & 900' FEL, Sec. 13 – T10S – R22E

Water Plant: 481' FNL & 2176' FEL, Sec. 9 – T8S – R20E

471' FNL & 2176' FEL, Sec. 9 – T8S – R20E

Frog Pond: 4820' FNL & 1200' FWL, Sec. 33 – T8S – R20E

4850' FNL & 700' FWL, Sec. 33 – T8S – R20E

Blue Tanks: 200' FNL & 405' FEL, Sec. 32 – T4S – R3E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

F. Construction Materials:

Construction operations will typically be completed with native materials found on location. Construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from Tribal lands without prior approval from the BIA. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BIA.

G. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BIA, for all reportable spills of oil, produced liquids, and hazardous materials.

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Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit whether a closed loop system is used or not. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BIA, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc.). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BIA. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BIA.

Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

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For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E NBU #159 in Sec. 35 T9S R21E Ace Oilfield in Sec. 2 T6S R20E MC&MC in Sec. 12 T6S R19E Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

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Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E CIGE 112D SWD in Sec. 19 T9S R21E CIGE 114 SWD in Sec. 34 T9S R21E NBU 921-34K SWD in Sec. 34 T9S R21E NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment depending on whether a closed loop system is used. Surface distance may be less if using closed loop. But in either case, the area of disturbance will not exceed the maximum disturbance outlined in the attached exhibits.

For the protection of livestock and wildlife, all open pits and cellars will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/ Produced Liquid tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BIA.

J. Plans for Surface Reclamation:

The surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. Interim reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification will be provided to the BIA for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

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Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit. Disposal of pit fluids and linings is discussed in Section G.

Final Reclamation

Final reclamation will be performed for unproductive wells and after the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by Kerr-McGee. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. The BIA will be notified prior to commencement of reclamation operations. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site to the approximate contour that existed prior to pad construction, final grading will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers, where practical. The surface soil material will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep, where practical. The entire area will be uniformly covered with the depressions constructed perpendicular to the natural flow of water.

Reclamation of roads will be performed at the discretion of the BIA/Tribe. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications as proposed below in "Measures Common to Interim and Final Reclamation".

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to the BIA/Tribe.

Measures Common to Interim and Final Reclamation

Soil preparation will be conducted using a disk for areas in need of more soil preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseeding, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a "picker box" in order to seed "fluffy" seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for

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re-vegetation. The seed mixes will be selected from a list provided by or approved by the BIA/Tribe or a specific seed mix will be proposed by Kerr-McGee to the BIA/Tribe and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain "cheat grass free seed".

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Indian Ricegrass (Nezpar)	3
Sandberg Bluegrass	0.75
Bottlebrush Squirreltail	1
Great Basin Wildrye	0.5
Crested Wheatgrass	1.5
Winterfat	0.25
Shadscale	1.5
Four-wing Saltbrush	0.75
Forage Kochia	0.25
Total	9.5

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Weed Control

Noxious weeds will be controlled in akk orihect areas un accordance with all applicable rules and regulations.

K. Surface/Mineral Ownership:

Ute Indian Tribe United States of America
P.O. Box 70 Bureau of Land Management
988 South 7500 East Annex Building 170 South 500 East
Fort Duschesne, UT 84026 Vernal, UT 84078
(435) 722-4307 (435)781-4400

L. Other Information:

Onsite Specifics:

• Rip road near corner 8.

Cultural and Paleontological Resources

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BIA.

Resource Reports:

A Class I literature survey was completed on April 25, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 12-102.

A paleontological reconnaissance survey was completed on April 10-16, 2012 by SWCA Environmental Consultants. For additional details please refer to report UT12-14314-120, UT12-14314-119 and UT12-14314-92.

Biological field survey was completed on April 10-13, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-765 and GCI-760.

Proposed Action Annual Emissions Tables:

Table 1: Proposed Action Annual Emissions (tons/year) ¹					
Pollutant	Development	Production	Total		
NOx	3.8	0.12	3.92		
CO	2.2	0.11	2.31		
VOC	0.1	4.9	5		
SO_2	0.005	0.0043	0.0093		
PM_{10}	1.7	0.11	1.81		
PM _{2.5}	0.4	0.025	0.425		
Benzene	2.2E-03	0.044	0.046		
Toluene	1.6E-03	0.103	0.105		
Ethylbenzene	3.4E-04	0.005	0.005		
Xylene	1.1E-03	0.076	0.077		
n-Hexane	1.7E-04	0.145	0.145		
Formaldehyde	1.3E-02	8.64E-05	1.31E-02		

¹ Emissions include 1 producing well and associated operations traffic during the year in

which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison						
Species	Proposed Action Production Emissions (ton/yr)	WRAP Phase III 2012 Uintah Basin Emission Inventory ^a (ton/yr)	to WRAP Phase			
NOx	19.6	16,547	0.12%			
VOC	25	127,495	0.02%			

a http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html

Uintah Basin Data

API Well Number: 43047534520000

NBU 921-17I1BS/921-17I1CS/ 921-17I4BS/ 921-17P1CS/ 921-17P4BS Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 14 of 14

M. Lessee's or Operators' Representative & Certification:

Danielle Piernot Regulatory Analyst II Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6156 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

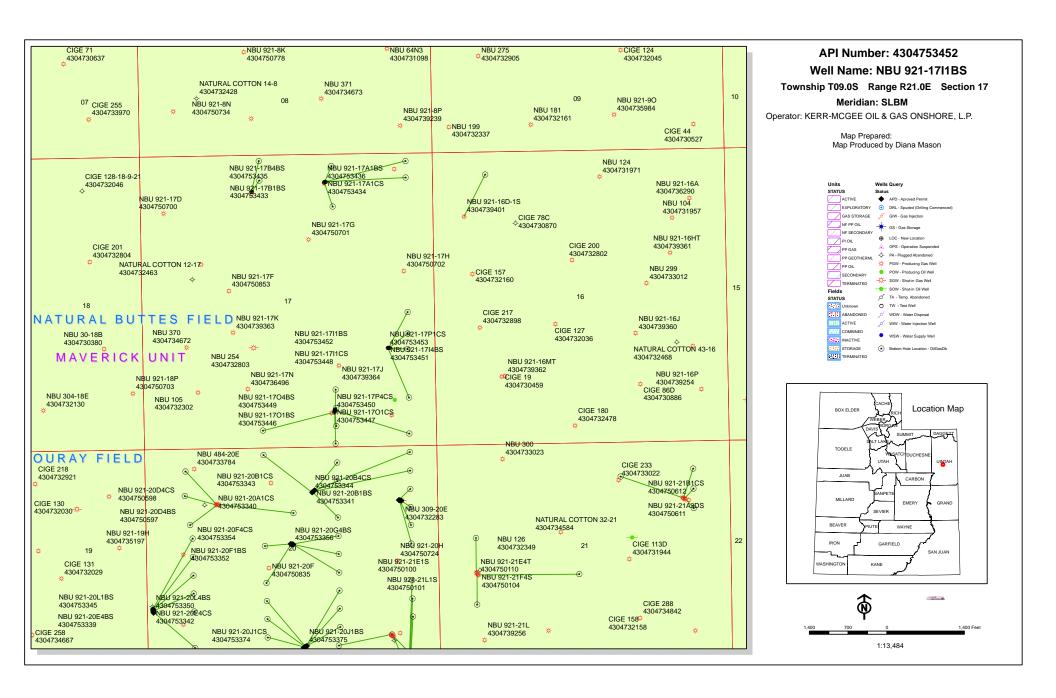
Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Danielle Piernot

July 30, 2012

Date



API Well Number: 43047534520000

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

January 2, 2013

Memorandum

To: Assistant Field Office Manager Minerals,

Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 Plan of Development Natural Buttes Unit

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2013 within the Natural Buttes Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

NBU 921-170 I		ATCH-MESA VI	KUE)				
43-047-53443		921-1704CS			R21E R21E		
43-047-53444	NBU	921-17N4BS			 R21E R21E	-	
43-047-53446	NBU	921-1701BS			R21E R21E		
43-047-53447	NBU	921-1701CS			 R21E R21E	_	
43-047-53449	NBU	921-1704BS			 R21E R21E	-	
43-047-53450		921-17P4CS			R21E R21E		
NBU 921-17I I 43-047-53448		921-17I1CS		 	 R21E R21E	 	
43-047-53451	NBU	921-17I4BS			 R21E R21E	-	
43-047-53452	NBU	921-17I1BS			 R21E R21E	_	
43-047-53453	NBU	921-17P1CS		 	 R21E R21E	 	
43-047-53455	NBU	921-17P4BS			 R21E R21E	-	

RECEIVED: January 03, 2013

API #	WELL NAME	LOCATION

(Proposed PZ NBU 921-17J		ATCH-MESA VI	ERDE))							
43-047-53456							R21E R21E				
43-047-53457	NBU						R21E R21E				
43-047-53458	NBU	921-17J1CS					R21E R21E		_		
43-047-53459			BHL	Sec Sec	17 17	T09S T09S	R21E R21E	1510 1737	FSL FSL	1821 1814	FEL FEL
NBU 921-17K 1 43-047-53460		921-17E4CS		Sec	17	T09S		2133	FSL	1582	FWL
43-047-53461	NBU	921-17F4CS					R21E R21E				
43-047-53462	NBU	921-17K1BS					R21E R21E				
43-047-53463	NBU						R21E R21E				
43-047-53464	NBU	921-17K4BS									
43-047-53465		921-17L1BS	BHL	Sec Sec	17 17	T09S T09S	R21E R21E	2131 2398	FSL FSL	1572 0824	FWL FWL
NBU 921-17M 1 43-047-53466		921-17L1CS		Sec	17	T09S	R21E R21E	1126	FSL	0909	FWL
43-047-53467	NBU	921-17M1BS									
43-047-53468	NBU	921-17M1CS					R21E R21E				
43-047-53469	NBU						R21E R21E				
43-047-53470	NBU	921-17M4CS					R21E R21E				
43-047-53471	NBU	921-17N1BS					R21E R21E				

Michael L. Coulthard

Digitally signed by Michael L. Coulthard

DN: cn=Michael L. Coulthard, o=Bureau of Land

Management, ou=Branch of Minerals,
email=Michael_Coulthard@blm.gov, c=US

Date: 2013.01.02 10:13:42-07'00'

bcc: File - Natural Buttes Unit Division of Oil Gas and Mining Central Files Agr. Sec. Chron

Fluid Chron

MCoulthard:mc:1-2-13

Page 2

API Well Number: 43047534520000

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/20/2012 API	NO. ASSIGNED: 43047534520000

WELL NAME: NBU 921-17I1BS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) PHONE NUMBER: 720 929-6029

CONTACT: Cara Mahler

PROPOSED LOCATION: NESE 17 090S 210E Permit Tech Review:

> **SURFACE: 1816 FSL 0844 FEL** Engineering Review:

> **BOTTOM: 2460 FSL 0493 FEL** Geology Review:

COUNTY: UINTAH

LATITUDE: 40.03372 LONGITUDE: -109.56917 UTM SURF EASTINGS: 622077.00 NORTHINGS: 4432481.00

FIELD NAME: NATURAL BUTTES LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU0575 PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 2 - Indian **COALBED METHANE: NO**

RECEIVED AND/OR REVIEWED: LOCATION AND SITING:

✓ PLAT R649-2-3.

Unit: NATURAL BUTTES Bond: FEDERAL - WYB000291

Potash R649-3-2. General

Oil Shale 190-5

Oil Shale 190-3 R649-3-3. Exception

Drilling Unit Oil Shale 190-13

Board Cause No: Cause 173-14 Water Permit: 43-8496

Effective Date: 12/2/1999 **RDCC Review:**

Siting: Suspends General Siting Fee Surface Agreement

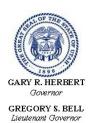
✓ Intent to Commingle R649-3-11. Directional Drill

Commingling Approved

Comments: Presite Completed

Stipulations:

3 - Commingling - ddoucet 4 - Federal Approval - dmason 15 - Directional - dmason 17 - Oil Shale 190-5(b) - dmason



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 921-17I1BS **API Well Number:** 43047534520000

Lease Number: UTU0575 Surface Owner: INDIAN Approval Date: 1/30/2013

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) due prior to implementation
 - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas

Form 3160-3 (August 2007)

RECEIVED

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

SEP 0 5 2012

FORM APPROVED

APPLICATION FOR PERMIT TO DRILL OR REFERENCE

OMB No. 1004-0136 Expires July 31, 2010

Lease Serial No. UTU0575

APPLICATION FOR PERM	IIT TO DRILL OR REENTER W	6. If Indian, Allottee or Tribe Name			
Ia. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No.			
		UTU63047A			
1b. Type of Well: ☐ Oil Well 🛛 Gas Well ☐	Z single zone Manapie zone				
	tact: DANIELLE PIERNOT	9. API Well No.			
3a. Address		43-047-53452			
PO BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6156 Fx: 720-929-7156	10. Field and Pool, or Exploratory NATURAL BUTTES			
4. Location of Well (Report location clearly and in acc	cordance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area			
At surface NESE 1816FSL 844FE	L 40.033815 N Lat, 109.569196 W Lon	Sec 17 T9S R21E Mer SLB			
At proposed prod. zone NESE 2460FSL 493FE					
14. Distance in miles and direction from nearest town or APPROXIMATELY 47 MILES SOUTH OF V	ERNAL, UT	12. County or Parish 13. State UINTAH UT			
15. Distance from proposed location to nearest property of lease line, ft. (Also to nearest drig, unit line, if any)	or 16. No. of Acres in Lease	17. Spacing Unit dedicated to this well			
493'	1600.00				
 Distance from proposed location to nearest well, drill completed, applied for, on this lease, ft. 	ing, 19. Proposed Depth	20. BLM/BIA Bond No. on file			
740'	11572 MD 11490 TVD	WYB000291			
21. Elevations (Show whether DF, KB, RT, GL, etc. 4836 GL	22. Approximate date work will start 03/01/2013	23. Estimated duration 60-90 DAYS			
	24. Attachments				
The following, completed in accordance with the requireme	nts of Onshore Oil and Gas Order No. 1, shall be attached	o this form:			
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest SUPO shall be filed with the appropriate Forest Service 	System Lands, the ltem 20 above). System Lands, the 5. Operator certification	tions unless covered by an existing bond on file (see information and/or plans as may be required by the			
25. Signature (Electronic Submission)	56 Date 08/30/2012				
Title REGULATORY ANALYST II	,				
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczk	a MAY 0 9 2013			
Assistant Field Manager Lands & Mineral Resources	VERNAL FIELD OFFIC	E			
Application approval does not warrant or certify the applications thereon. Conditions of approval, if any, are attached. CONDITIO		t lease which would entitle the applicant to conduct			
The to U.S.C. Section 1001 and The 43 U.S.C. Section 1	212. make it a crime for any nerson knowingly and willfull	y to make to any department or agency of the United			
States any false, fictitious or fraudulent statements or repres	entations as to any matter within its jurisdiction.	MAY 1 4 2013			
Additional Ones to Decide					

Additional Operator Remarks (see next page)

Electronic Submission #148106 verified by the BLM Well Information System For KERR MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal Committed to AFMSS for processing by LESLIE ROBINSON on 09/07/2012 ()

DIV. 07 0 1, 6x8 1, Vib. 416

NOTICE OF APPROVAL

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

12 PPH 299312

NOS-4 3012



UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE** 170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No: API No:

Kerr McGee Oil & Gas Onshore, LP

NBU 921-1711BS

43-047-53452

Location: Lease No:

Agreement:

NESE, Sec. 17, T9S, R21E

UTU-0575 **Natural Butte**

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER:

(435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

-	Forty-Eight (48) hours prior to construction of location and access roads.
-	Prior to moving on the drilling rig.
-	Twenty-Four (24) hours prior to spudding the well.
-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
-	Twenty-Four (24) hours prior to initiating pressure tests.
-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.
	-

Page 2 of 6 Well: NBU 921-17I1BS

5/7/2013

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop
 work and contact the Authorized Officer (AO). A determination will be made by the AO as to what
 mitigation may be necessary for the discovered paleontologic material before construction can
 continue.
- Paint facilities "Shadow Gray."
- Conduct a raptor survey prior to construction operations if such activities would take place during raptor nesting season (January 1 through September 30). If active raptor nests are identified during the survey, operations should be conducted according to the seasonal restrictions detailed in the Uinta Basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines.
- If construction operations are not initiated prior to March 22, 2013, an additional biological survey for Uinta Basin hookless cactus should be conducted prior to construction in accordance with current USFWS protocol.
- Monitor construction with a permitted archaeologist.
- Rip and make impassible the section of access road to be re-routed.
- Armor all fill slope toes for erosion/sedimentation prevention.

Page 3 of 6 Well: NBU 921-17I1BS 5/7/2013

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Gamma Ray Log shall be run from Total Depth to Surface.
- CBL will be run from TD to TOC.
- Cement for the surface casing will be circulated to the surface.
- Cement for the long string shall be circulated to 200' above the surface casing shoe.

Variances Granted Air Drilling

All variances approved as written in APD.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.

Page 4 of 6 Well: NBU 921-17I1BS 5/7/2013

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is
 encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal
 Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
 Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall
 be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL
 to this office.
- Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 5 of 6 Well: NBU 921-17I1BS 5/7/2013

OPERATING REQUIREMENT REMINDERS:

 All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at <u>www.ONRR.gov</u>.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written communication
 and must be received in this office by not later than the fifth business day following the date on
 which the well is placed on production. The notification shall provide, as a minimum, the following
 informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - o Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be
 reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported
 verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will
 be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of
 Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

Page 6 of 6 Well: NBU 921-17I1BS 5/7/2013

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior approval
 of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
 approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
 of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Sundry Number: 44874 API Well Number: 43047534520000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES		FORM 9
ı	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0575		
SUNDR	Y NOTICES AND REPORTS ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: THE UT
	posals to drill new wells, significantly dee reenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 921-1711BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047534520000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	PHO n Street, Suite 600, Denver, CO, 80217 37	ONE NUMBER: 79 720 929-6	9. FIELD and POOL or WILDCAT: 5NATERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1816 FSL 0844 FEL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NESE Section: 1	IIP, RANGE, MERIDIAN: 7 Township: 09.0S Range: 21.0E Meridian:	S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICATE N	IATURE OF NOTICE, REPOR	T, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
✓ NOTICE OF INTENT	ACIDIZE	ALTER CASING	CASING REPAIR
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
1/30/2014	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all pe	ertinent details including dates, d	enths, volumes, etc.
Kerr-McGee Oil & Gan extension to this	as Onshore, L. P. (Kerr-McGee) APD for the maximum time allowith any questions and/or com	respectfully requests owed. Please contact	Approved by the Utah Division of Oil, Gas and Mining
			Date: November 18, 2013
			By: Bacquill
NAME (PLEASE PRINT) Kay E. Kelly	PHONE NUMBER 720 929 6582	TITLE Regulatory Analyst	
SIGNATURE		DATE	
N/A		11/13/2013	

Sundry Number: 44874 API Well Number: 43047534520000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047534520000

API: 43047534520000 **Well Name:** NBU 921-17I1BS

Location: 1816 FSL 0844 FEL QTR NESE SEC 17 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 1/30/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

Following is	s a checklist of sor	me items related to the application, which should be verified.	
	ated on private lar	nd, has the ownership changed, if so, has the surface agreement been u	updated? 🔲
		rilled in the vicinity of the proposed well which would affect the spacin ocation? Yes No	g or siting
	there been any uni osed well?	it or other agreements put in place that could affect the permitting or of	peration of this
	there been any chosed location?	hanges to the access route including ownership, or rightof- way, which) Yes No	could affect the
• Has	the approved sour	ce of water for drilling changed? 🔵 Yes 📵 No	
		hysical changes to the surface location or access route which will requi iscussed at the onsite evaluation? 🔲 Yes 🌘 No	re a change in
• Is bo	onding still in place	e, which covers this proposed well? 🌘 Yes 💭 No	
Signature:	Kay E. Kelly	Date: 11/13/2013	
Title:	Regulatory Analys	t Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.	

RECEIVED: Nov. 13, 2013

Sundry Number: 58601 API Well Number: 43047534520000

			1
	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE		FORM 9
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0575		
SUNDF	RY NOTICES AND REPORTS (ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizor n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 921-1711BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047534520000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18t	h Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 3779 720 929-0	9. FIELD and POOL or WILDCAT: 1NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1816 FSL 0844 FEL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNS	HIP, RANGE, MERIDIAN: 7 Township: 09.0S Range: 21.0E Meridi	an: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
12/8/2014	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:
40 DECODINE DRODOGED OD			<u>'</u>
Kerr-McGee Oil & G an extension to this	COMPLETED OPERATIONS. Clearly show a sas Onshore, L.P. (Kerr-McGe APD for the maximum time a with any questions and/or co	ee) respectfully requests allowed. Please contact	Approved by the
			Date:
			By: Daggill
NAME (PLEASE PRINT) Kay E. Kelly	PHONE NUMBE 720 929 6582	ER TITLE Regulatory Analyst	
SIGNATURE N/A		DATE 12/8/2014	

Sundry Number: 58601 API Well Number: 43047534520000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047534520000

API: 43047534520000 Well Name: NBU 921-17I1BS

Location: 1816 FSL 0844 FEL QTR NESE SEC 17 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 1/30/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• · · · · · · · · · · · · · · · · · · ·	o a oncomist of come no	mo related to the approacher, which endula be verified.
	cated on private land, ha No	s the ownership changed, if so, has the surface agreement been updated? 🔘
	e any wells been drilled irements for this locatio	in the vicinity of the proposed well which would affect the spacing or siting on? (Yes (No
	there been any unit or o osed well? Q Yes @	other agreements put in place that could affect the permitting or operation of thi No
	e there been any change losed location?	s to the access route including ownership, or rightof- way, which could affect th s 🌘 No
• Has	the approved source of	water for drilling changed? 🔘 Yes 🃵 No
		Il changes to the surface location or access route which will require a change in sed at the onsite evaluation? (Yes (No
• Is bo	onding still in place, which	ch covers this proposed well? 🌘 Yes 💭 No
nature:	Kay E. Kelly	Date: 12/8/2014

Sig

Title: Regulatory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Form 3160-5 (August 2007)

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APR 0 1 2015

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS on to use this form for proposals to drill or to re-enter an

5. Lease Serial No. UTU0575

Do not use th	ie form for proposale to	drill or to m	antor on	D I				
abandoned we	is form for proposals to oll. Use form 3160-3 (APE)) for such	proposals	DL		6. If Inc	lian, Allottee o	r Tribe Name
SUBMIT IN TRI	PLICATE - Other instruct	tions on re	verse side			7. If Un 891	it or CA/Agree	ement, Name and/or No.
Type of Well Oil Well					-	8. Well NBU	Name and No. 921-1711BS	
2. Name of Operator KERR MCGEE OIL & GAS O	Contact: J	JOEL MALE			·	9. API \\	Well No. 147-53452-0	0-X1
3a. Address	,	3b. Phone No		ea code)			d and Pool, or	
1368 SOUTH 1200 EAST VERNAL, UT 84078		Ph: 720-92 Fx: 720-92	29-6828			NAT	URAL BUT	TES
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description)					11. Cou	nty or Parish, a	and State
Sec 17 T9S R21E NESE 1816 40.033815 N Lat, 109.569196						UIN'	TAH COUN	TY, UT
12. CHECK APPI	ROPRIATE BOX(ES) TO	INDICATI	E NATURI	E OF NO	OTICE, RI	EPORT,	OR OTHE	R DATA
TYPE OF SUBMISSION			17	PE OF	ACTION		•	
Notice of Intent	☐ Acidize ☐ De		eepen		☐ Production (Start/Resume)		/Resume)	☐ Water Shut-Off
_	☐ Alter Casing	☐ Fra	cture Treat		☐ Reclama	ation		■ Well Integrity
☐ Subsequent Report	□ Casing Repair	_	w Construction		☐ Recomplete			Other Change to Original A
☐ Final Abandonment Notice	Change Plans		g and Aband		☐ Tempor	•	ndon	PD PD
13. Describe Proposed or Completed Ope	Convert to Injection		g Back		☐ Water D			
testing has been completed. Final Abdetermined that the site is ready for final Kerr-McGee Oil & Gas Onsho extension to this APD for the nundersigned with any question APD 5/9//3	inal inspection.) re, L.P. (Kerr-McGee) resp naximum time allowed. Ple	ectfully requase contact	uests an				VERNAL	FIELD OFFICE
NEPA-2013-194 E	A		I VEOFIVED				1	i
NETT LOTE !!!			APR 2 0	2015			GEOL	
		504	25011				E.S	TO THE OWNER OF THE PROPERTY O
CONDITIONS OF APPR	ROVAL ATTACHED	DIV. (OF OIL, GAS & MINING			PET		
Ooriginate of the treatment of								
							RECL_	
14. I hereby certify that the foregoing is	true and correct. Electronic Submission #29 For KERR MCGEE mitted to AFMSS for proces	OIL & GAS (INSHORE L	., sent to	o the Verna	d -	67SE)	
Name (Printed/Typed) JOEL MAL	.EFYT		Title R	EGULA	TORY ANA	ALYST		
			i					
Signature (Electronic S				/01/201				
	THIS SPACE FOR	RFEDERA	L OR ST	ATE O	FFICE US	SE		
Approved By			Title		tant Field		•	APR 1 0 208
Conditions of approver, if any, are attached ertify that the applicant holds legal or equivalent would entitle the applicant to condu	 Approval of this notice does not itable title to those rights in the sect operations thereon. 	ot warrant or ubject lease	Office		NAL FI			
Fitle 18 U.S.C. Section 1001 and Title 43 U.States any false, fictitious or fraudulent s					llfully to ma	ke to any o	lepartment or a	agency of the United

CONDITIONS OF APPROVAL

Kerr McGee Oil and Gas Onshore LP.

Notice of Intent APD Extension

Lease:

UTU-0575

Well:

NBU 921-17I1BS

Location:

NESE Sec 17-T9S-R21E

An extension for the referenced APD is granted with the following conditions:

- 1. The extension and APD shall expire on 05/09/2017.
- 2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Robin L Hansen of this office at (435) 781-2777

Sundry Number: 69238 API Well Number: 43047534520000

	STATE OF UTAH		FORM 9			
ι	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0575			
SUNDR	Y NOTICES AND REPORTS OF	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE			
	posals to drill new wells, significantly de- reenter plugged wells, or to drill horizonta n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-1711BS					
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	9. API NUMBER: 43047534520000					
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	Ph n Street, Suite 600, Denver, CO, 80217 3	HONE NUMBER: 779 720 929-6	9. FIELD and POOL or WILDCAT: 5NATURAL BUTTES			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1816 FSL 0844 FEL			COUNTY: UINTAH			
QTR/QTR, SECTION, TOWNSH	HP, RANGE, MERIDIAN: 7 Township: 09.0S Range: 21.0E Meridian	STATE: UTAH				
11. CHECH	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA			
TYPE OF SUBMISSION		TYPE OF ACTION				
/	ACIDIZE	ALTER CASING	CASING REPAIR			
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME			
1/20/2016	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE			
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION			
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK			
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION			
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON			
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL			
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION			
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:			
12 DESCRIPE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all p	cortinant dataile including dates of	dontho volumos etc			
Kerr-McGee Oil & G an extension to this	as Onshore, L.P. (Kerr-McGee APD for the maximum time all with any questions and/or com) respectfully requests lowed. Please contact	Approved by the			
			Date:			
			By: Daggill			
NAME (PLEASE PRINT)	PHONE NUMBER					
Jennifer Thomas	720 929-6808	Regulatory Specialist				
SIGNATURE N/A		DATE 1/20/2016				

Sundry Number: 69238 API Well Number: 43047534520000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047534520000

API: 43047534520000 Well Name: NBU 921-17I1BS

Location: 1816 FSL 0844 FEL QTR NESE SEC 17 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 1/30/2013

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·····
 If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
 Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
 Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
 Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
• Has the approved source of water for drilling changed? Yes No
 Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? Yes No
nature: Jennifer Thomas Date: 1/20/2016

Sig

Title: Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Sundry Number: 77232 API Well Number: 43047534520000

			T			
	STATE OF UTAH		FORM 9			
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MINI		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0575			
SUNDF	RY NOTICES AND REPORTS O	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE			
	oposals to drill new wells, significantly do reenter plugged wells, or to drill horizont n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-1711BS					
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	9. API NUMBER: 43047534520000					
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18t	PHONE NUMBER: 3779 720 929-0	9. FIELD and POOL or WILDCAT: 45/ATURAL BUTTES				
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1816 FSL 0844 FEL		COUNTY: UINTAH				
QTR/QTR, SECTION, TOWNSI Qtr/Qtr: NESE Section: 1	n: S	STATE: UTAH				
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA			
TYPE OF SUBMISSION		TYPE OF ACTION				
	ACIDIZE	ALTER CASING	CASING REPAIR			
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME			
1/4/2017	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE			
SUBSEQUENT REPORT	DEEDEN	FRACTURE TREAT	NEW CONSTRUCTION			
Date of Work Completion:		PLUG AND ABANDON				
	OPERATOR CHANGE PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION			
SPUD REPORT Date of Spud:		_				
Date of Sputt.	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON			
	L TUBING REPAIR	UVENT OR FLARE	WATER DISPOSAL			
DRILLING REPORT Report Date:	☐ WATER SHUTOFF ☐	SI TA STATUS EXTENSION	✓ APD EXTENSION			
	WILDCAT WELL DETERMINATION	OTHER	OTHER:			
Kerr-McGee Oil & G an extension to this	COMPLETED OPERATIONS. Clearly show all sas Onshore, L.P. (Kerr-McGeo APD for the maximum time a with any questions and/or cor	e) respectfully requests llowed. Please contact	Approved by the WamuBiyi6i4,r20fl 7 Oil, Gas and Mining			
			Date:			
			By: Dally			
			33			
NAME (PLEASE PRINT)	PHONE NUMBE	R TITLE				
Candice Barber	435 781-9749	HSE Representative				
SIGNATURE N/A		DATE 1/4/2017				

Sundry Number: 77232 API Well Number: 43047534520000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047534520000

API: 43047534520000 **Well Name:** NBU 921-17I1BS

Location: 1816 FSL 0844 FEL QTR NESE SEC 17 TWNP 090S RNG 210E MER S

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Date Original Permit Issued: 1/30/2013

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onowing to a oncommet of come name related to the approachen, which cheats be verified.	
 If located on private land, has the ownership changed, if so, has the surface agreement been updated Yes No 	? (C)
 Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siti requirements for this location? Yes No 	ng
 Has there been any unit or other agreements put in place that could affect the permitting or operation proposed well? Yes No 	n of this
 Have there been any changes to the access route including ownership, or rightof- way, which could a proposed location? Yes No 	ffect the
• Has the approved source of water for drilling changed? 📋 Yes 📵 No	
 Have there been any physical changes to the surface location or access route which will require a change plans from what was discussed at the onsite evaluation? Yes No 	nge in
• Is bonding still in place, which covers this proposed well? 🌘 Yes 🔘 No	
Signature: Candice Barber Date: 1/4/2017	

Title: HSE Representative Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED: Jan. 04, 2017